

The National Locksmith®

April 2005
Volume 76
No. 4
\$7.00

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— This Month's Special — **LOCKSMITH TOOLS**



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**INCREDIBLE
SELECTION!**



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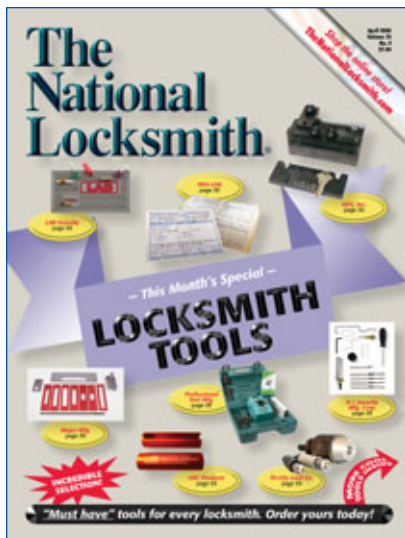
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www.hpcworld.com

Circle 319 on Rapid Reply



Who doesn't love a cool new tool? We all do, and this issue features several of them. Doing things the hard way just doesn't cut it, especially when a tool is available that allows you to do it the easy way, the right way, and the fastest way.

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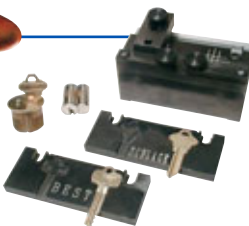
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Locksmith Tools

Achieving the impossible with the correct tool.



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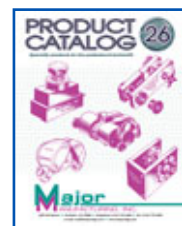
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WE NEEDED TO MAKE A POINT. SO WE MADE A STRONG ONE.



ARROW POINTE™ INTERCHANGEABLE CORE FEATURES 4 COMPONENTS FOR STRENGTH AND DURABILITY.

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Step Back In Time and It takes A Locksmith

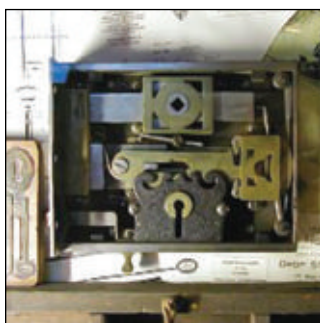
Next time I'm in England I have a stop to make. The Locksmith's House is like stepping back into locksmithing in the Victorian Era. This home and workshop has been preserved and restored just as it was well over 100 years ago when the Hodson family lived there with their six children, manufacturing locks that were sold all over the world.



The Hodsons produced two types of padlock, which were sold in countries such as Cuba, Equador, France, Russia, and to a lesser extent the U.K. The first type of padlock produced was the lighter lock, which was used for securing crates to the deck of boats, for the transfer of cargo from sea going ships to the port. The second type of lock was the bar padlock. These were used for such purposes as securing gates, securing cattle compounds and had uses in prisons.



What a lovely little gem of a museum The Locksmith's House promises to be. You can visit their website and get more information at



<http://www.local.history.scit.wlv.ac.uk/lockmuseum.htm>.

I know when I have the chance to visit England again, I'd like to take this walk through history. I hope you will too.

By now you've heard of the reality show *It Takes a Thief* in which two ex-burglars break into homes, then show the owners how to upgrade their security. We suppose this makes the show sexier than it would be if they had honest locksmiths doing the same thing.

But we still think it's a good idea that the show (Discovery Channel) is raising awareness and that better security is possible. And that the consequences of poor security can be devastating. The tips given on this show are nothing brilliant or new. You'll be familiar with most all of them. So I'd call the show consciousness raising more than anything else.

But hey, whatever brings better perimeter security publicity, brings publicity to the locksmith as well. Think about trying to get on the show yourself! Your home may qualify if you're within a two hour drive of New York City. Wouldn't it be ironic? E mail the producers at securitymakeover@liontv.us. Tell them why you should be on *It Takes A Thief*. Remember, it takes a locksmith to stop a thief.

Marc Goldberg



**Have questions? Want free technical help?
Free Locksmith Forums!**

www.TheNationalLocksmith.com

Marc Goldberg
Publisher

Mango's Message

Just Plain Rude

What would you do if you were sitting at home one day minding your own business when the phone rings? You answer, and the party on the other end asks you about a product you have for sale. As your mind is racing, you realize that you don't have a clue what they are talking about. You convey to the party calling that you are unaware of what they are requesting, which triggers a vulgar barrage of obscenities and threats towards you.

I'm sure such an encounter would cause anyone to be a bit flustered and taken aback. Well, that's just what happened to some unsuspecting poor sole in New Jersey, and the uncalled for wrath was inflicted by locksmiths.

The National Locksmith recently ran a Classified ad under "Products & Tools" in which the phone number printed was incorrect. The last digit of the phone number was supposed to be a 2 instead of an 8. Everything was correct except for the last digit. The number listed was to a residence in New Jersey instead of a business in New Jersey.

Apparently this ad generated some interest and several locksmiths responded. However, instead of being directed to the proper party involved, they reached a gentleman at his apartment residence. I know because he called me after the fact completely flustered about his experience.

He told me that he was receiving calls about something he was completely unaware of and several of the individuals calling were extremely rude, obnoxious, and even threatening when he was unable to help them. He was obviously concerned and upset that his home phone number was published, but he was more concerned about how to deal with future calls.

One locksmith told him that if he didn't know how to run a *%#% business he shouldn't be in business. Another called him a stupid *%#head and said he was going to report him to the Better Business Bureau and file a false advertising complaint. And, I'm sad to say, there were more.


At the time I was unaware that we had published an incorrect phone number because I have nothing to do with classified ads and would have no way of telling if a phone number printed is correct or not once in the magazine. Apparently others here were aware of the mistake and a correction was already in process. I had the original Classified ad pulled to check the phone number and sure enough, the number on the hand written fax looked like an 8, but it was supposed to be a 2.

Granted, I am only hearing one side of the story and I have no idea how this gentleman receiving the calls was

responding or handling them himself, but still! There is simply no excuse for such vulgar rudeness.

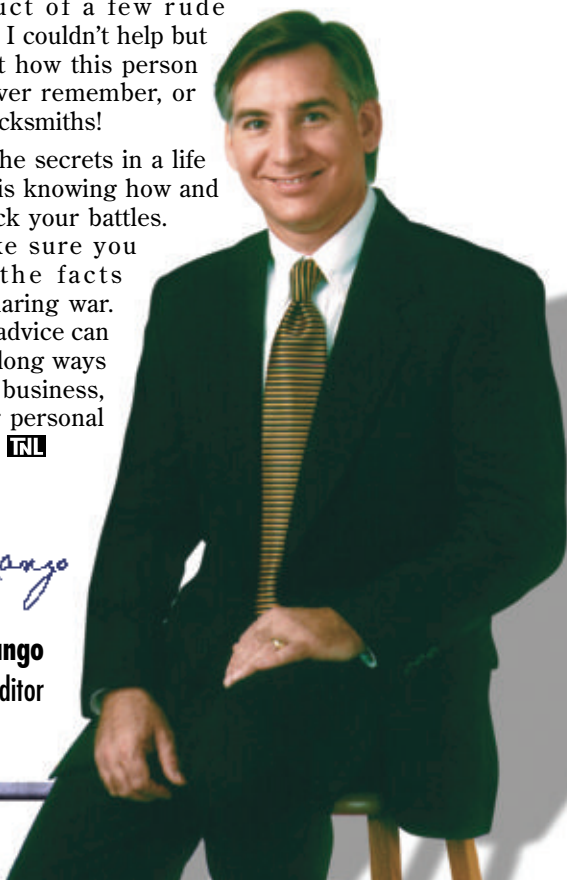
That being said, I'm not trying to stand on some pedestal as if I'm perfect myself. No, I am not a weeping willow and can have a hair-trigger temper under the wrong circumstances. However, there are few things I ever let my nose get seriously bent out of shape over. It's simply not worth it, especially something as minor as a wrong phone number. There are many things in life that are inconveniences, but are they really worth getting upset about? Does it really accomplish anything? In the end it usually accomplishes very little, and can often backfire. The next time you take a flight with your preferred airline, loudly complain about the service, delays, incompetence of staff or crew members, or lack of food and see if you're not seated in the last row of the aircraft, with seats that don't recline!

I was rather embarrassed by this event, because other than apologize for the actions of others, there was simply no logical or acceptable defense I could present to justify the conduct of a few rude locksmiths. I couldn't help but think about how this person would forever remember, or perceive, locksmiths!

One of the secrets in a life of success is knowing how and when to pick your battles. First, make sure you have all the facts before declaring war. That bit of advice can take you a long ways not only in business, but in your personal life as well. 



Greg Mango
Editor



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PHOENIX (800) 775-5625
SACRAMENTO (800) 245-3003

SALT LAKE CITY (800) 453-6430
SAN DIEGO (800) 542-5625
SEATTLE (800) 942-5275
WASHINGTON D.C. (800) 578-5625



LETTERS

Dear Sara Probasco

First I would like to say that I enjoy reading "The Lighter Side" every month. I wish we could have half the excitement y'all have out there in Texas, up here in the mountains.

In your article in June 2004, volume 75 No.6, you talked about "The required two minute wait before trying the key in the ignition." Our shop has had an NGS for about a year now and I have done about 100 or so jobs myself. But I cannot find anywhere in the manual that states there is a mandatory two minute wait. I also have never used that method before, and all of my keys have worked. So where did you get that bit of information, and should I start incorporating it into my jobs?

Thank you,

Mike McGinnis
California

Hi, Mike!

Thanks for writing and for reading "The Lighter Side" articles in *The National Locksmith*.

Regarding the two minute wait: Ever since it came out, we've used National Auto Lock Service, Inc.'s "NSG Generation Star Tester P.A.T.S. Instruction Manual—Software Ver: 6 & up—Pub Version: 2003" as the reference guide to NGS in our business. In it, at the bottom half of page 33, are the following directions:

"The next menu should now appear:
PROCESS HAS BEEN COMPLETED."

You now have 8 seconds to perform the following: (Do Not Wait)

You need 2 New PATS keys to perform this function.

(1) Unplug the NGS Tester...[there are more words that I won't include here]

(2) Remove key #1...

(3) Insert key #2...

(4) Remove key #2...

(5) Re-insert key #1...

(6) Wait 2 minutes for the programming cycle to complete and then the vehicle should start."

I double-checked with Don, and he said they ran into problems a time or two, early on, by not following this procedure, so it has remained standard operating procedure ever since, among our personnel.

I'm a strong advocate of the advice, "If it ain't broke, don't fix it." If you've never had a problem, why change now? However, if a problem should rear its ugly head, one of these days, waiting 2 minutes might be the answer.

Thanks for mentioning this. I try to be accurate in technical information I refer to in my articles, but I'm certainly not perfect. I'm happy to double-check facts and figures for my readers if there's ever a question about something.

Keep smiling. It makes folks wonder what you're up to!

Sara Probasco

Technitip Winner

I appreciate the way manufacturers have applauded our efforts by contributing the various prizes. Needless to say, those prizes have enhanced our bottom line, specifically the LaGard 3750 lock that I have just received. I have written a thank you letter to the VP of sales and marketing for their efforts in rewarding the Technitips column.

Jake, I have found that the information that I get from the Technitips column is something that I find myself returning to year after year as I put it to practical use on a daily basis.

Thank you all for making it a little easier for those of us working in this industry.

Larry Kanzer
Pennsylvania

Police Opening Cars

I read with great interest your article about the local Police Department opening cars for "FREE" to the public. I have an idea, let me run it by you.

I have considered placing an AD in the local weekly paper about the damage the police do to peoples cars. In the ad I would tell that I will be an expert witness in court as to how to safely open a locked car, and to no expense to the plaintiff I will explain the Police are liable for damage to your car. That is why the Minneapolis Police Department quit trying to open locked cars.

I'll let you know what happens.

Michael H. Childs
Minnesota

TRL



E-mail Your Views:
natllock@aol.com

Please include your first and last name.

The National Locksmith

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Attn: Editor

The National Locksmith is interested in your views. We do reserve the right to edit for clarity and length.

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Receive a VISA Gift Card worth anywhere from \$50.00 to \$500.00! To be eligible, simply purchase and install the MS® Maglock before August 31, 2005. It's that simple. Just visit our Web site, www.adamsrite.com/visa1 for easy terms and conditions of this special offer.

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"We currently have Locknetics products in inventory. Once it is gone we will be purchasing the Adams Rite MS1500 Maglock as our standard inventory."

Bob B., Hardware Buyer

"Its strength and small size means it will fit most of my applications. Love the installation templates, and thanks for sending my VISA card so promptly."

Jeff H., Installer

"We are very impressed with this lock and the hospital is too. We will be using these locks much more in the future."

Rich R., Security Company President



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SELECTION!**

— This Month's Special —

LOCKSMITH TOOLS

Where would we be without the tools of the trade? We'd have some pretty knurly hands that would hurt and every time the phone would ring to do a lock install, open a safe, cut a key or open a car we'd cringe. The old adage of the right tool for the job is certainly true. It makes everything better, faster, easier, and certainly less painful.

A1's Specialty GM Picks

Because of GM's decision to stop releasing codes to locksmiths, demand for A1's specialty GM picks has increased. With stronger demand for picking and decoding both the in-dash and column mounted ignitions, A1 has combined both products into one, more universal package.

According to A1, picking and decoding the traditional (75 groove keyway) ignitions is just about as quick as contacting GM for the code and locksmiths can charge more for the service. Column mounted ignitions can be picked and decoded in 3 to 5 minutes while the In-dash ignitions take 5-7 minutes.

This professional set does no damage to the ignitions and the combined set is priced well beneath the pricing of both sets purchased separately.

**CIRCLE
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Aable Locksmiths Ford 8-cut Tool

Frank Markisello of Aable Locksmiths has done it again, his all new Ford 8-cut no sidebar ignition force tool, will turn the ignition to the on position in less than 60 seconds for fast removal of the lock or to start the car in an emergency. Made of hardened tool steel to last a lifetime.



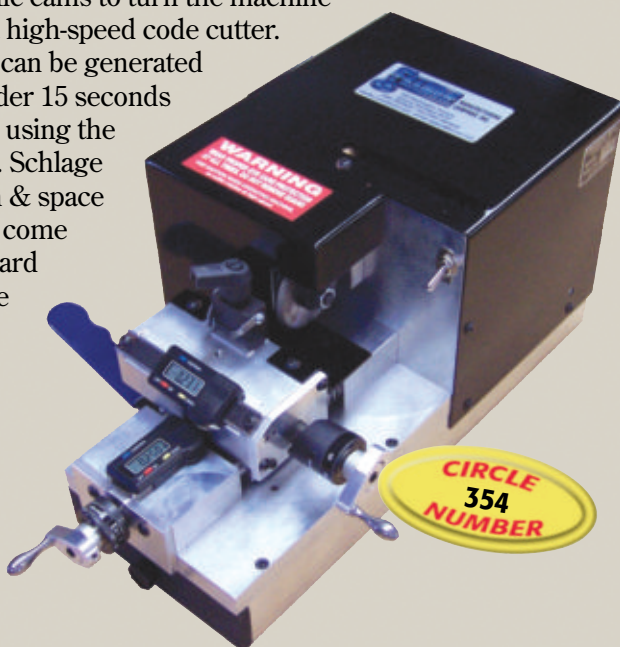
Framon's New Code Machine

Framon is proud to introduce our newest code machine, the Framon FRA-2D. The 2D is a digital version of our FRA2 code machine. In place of the dials and spacing blocks are two digital readouts that make using the machine simpler & easier than ever before. In addition to being easy to use, the accuracy of the machine is within .0005" in both spacing and depth.

Accessories included with the 2D will be our Depth & Space Manual, a free coupon for our Genericcode Me code program (full version), a coupon for two free cutters, dial calipers, and spare batteries for the readouts.

In addition, the 2D utilizes depth & space cams to turn it into an "electric punch" machine. It can be used as an all-purpose code machine, and in seconds the user can change the machine over to use manufacturer-specific cams to turn the machine into a high-speed code cutter.

Keys can be generated in under 15 seconds when using the cams. Schlage depth & space cams come standard on the FRA-2D.



Your Reliable Hardware Supplier

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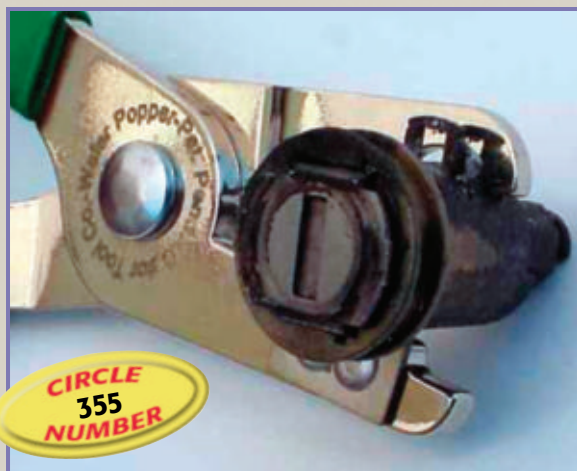
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CCL
Chicago Lock
Detex
Dor-O-Matic
ESP
Folger Adam
Fort Lock
Glynn Johnson
Hager
HPC
KABA ILCO
Ives
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Jet
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LCN
Locknetics
Lucky Line
MAG
Master Lock
Medeco
National Cabinet Lock
National Guard
Norton
Rixson
Rockwood
Roton
Sargent
Schlage
Simplex
Stanley
Telkey
Von Duprin
Washroom Accessories

Gator Tool Wafer Popper

Are you frustrated trying to remove stuck wafers? Holding the lock and a screwdriver in one hand and a small hammer in the other, giving it a tap, hoping not to break anything or causing injury to your fingers. This is why Gator Tools Co. has developed a new tool, the "Wafer Popper".

What can be more convenient than having three hands? Well...it's a pair of pliers to remove those wafers from corroded, peened and stuck locks. You simply position the lock within the tool and squeeze gently. Your wafer will "pop out" of the backside of the lock and into your hand. After rekeying or repairing your lock, simply start the wafer back in the hole, position the pliers and gently squeeze them one more time to push the wafer back into the lock.

Click...click...click, it's just that quick!



GKL Hinge Doctor

Did you ever have to file a door strike because the latch is suddenly below the strike hole? Or the top of the door is hitting the doorframe? Well put away that file and you won't need to remove the hinge to bend it back in your vise either. Just use the new "Hinge Doctor" tool. It will fix that sagging door in a minute in just two easy steps. Just slide the tool over the hinge while the door is closed, hold it there with one hand while you open the door with your other hand. The door will start to bind and will feel springy. Continue pulling the door open another few inches or so. At this point, if it's a hollow metal door, you're realigning the hinge mounting plate, or if it's a wood door, the hinge will start bending back to its original shape.



Gil-Ray Tools Sharpens Dull Cutter Wheels

Gil-Ray Tools offers a fast mail in sharpening service for dull key cutter wheels. As an original equipment manufacturer for many of the more popular key machine companies, Gil-Ray has over 59 years of experience in cutter sharpening. At Gil-Ray dull key cutters can be sharpened up to 6 times before replacement is needed. Because every cutter is matched to OEM blueprint specifications, cutters restored by Gil-Ray work as good as new.

All key cutters can be sharpened including...Code Cutters, Duplicating Cutters, Flat Slotters and End Mills. All materials are sharpened by precision grinding including Carbide and HSS. Gil-Ray also offers new replacement cutters direct to Locksmiths. Recent additions include Code Cutter wheels for HPC, Framon & Kaba Ilco machines, and Precision Metric Duplicating Cutters for Bollini, Borkey, Bravo & Rytan machines.



High Tech Tools Lockout Set

High Tech Tools Introduces its New 2005–2006 Super Pro Auto Lockout set. The Super Pro covers virtually every automobile from 1979 to early release 2006, even 18 wheelers. The 1600 page manuals include photos and diagrams making every opening easy. All tools including a complete jack set are included.

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HPC Stamp Aligner XL

The Stamp Aligner XL (SA-7XL) is twice as quick and holds twice as much as the original Stamp Aligner. Crooked numbers, stamps flying across the room and numbers that go up, down and all around, are a thing of the past. The main housing of the Stamp Aligner XL holds the stamps for you, so the figures may be stamped on keys in a straight line with even spacing between characters. The Universal Plate is designed to quickly swap out and securely holds two keys for stamping. Removing the plate exposes two openings designed to hold rim or mortise cylinders so they can be stamped as well. Plus, additional specialty plates are available for quick snap-in locking of Schlage keys and Best IC keys and cores for even faster stamping.

Whether stamping a name on one key or codes on multiple keys and cylinders in a master key system, you will find that the Stamp Aligner XL will pay for itself over and over again.



Kaba Ilco Plug Holders

As every locksmith knows, once the pins are spilled from a plug they fall to the floor and instantly turn invisible. Kaba Ilco Corp. has a cure for this problem with two new Ilco Plug Holders with expanded capabilities.

The convenient size and solid aluminum design allow the fixtures to be used three ways: carried and placed on any work surface, held in vise jaws or permanently mounted to a workbench.

The Ilco 785-00-8X accepts one each of the four most common plug diameters plus it has positions to hold mortise/rim, key-in-knob and ICC cylinder bodies. Both the plug and the cylinder body are held in a convenient position for quick re-assembly, saving time and frustration while improving efficiency. A newly pinned cylinder can even be tested prior to mounting it back in the lock.

The Ilco 786-00-8X holds the most common size plug in production today and will accept Arrow, Kwikset, Schlage and many other popular brands. The eight plug holding positions are especially useful when master pinning many plugs.

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NUMBER**



Keedex's Door Laser

The Door Laser (part# DRLSR) from Keedex is used for core-drilling $1\frac{3}{4}$ " thick wooden doors. The use of a Laser Sight assures accurate drilling.



The LABMAT

A new locksmith work mat from LAB, called the LABMAT, is designed to be used on a locksmith's workbench or adhered and used in mobile vans. The work mat will capture and retain several hundred pins and prevent them from being spilled onto the floor. In addition, a resi pin block for keying cylinders has been molded into the lower left of the mat. This feature will help organize keying and prevent mixing of pins and parts. These rubber polyvinyl mats measure approximately 10" x 16", and are available through distributors.



Lectro-Truck From Innovative Moving Systems

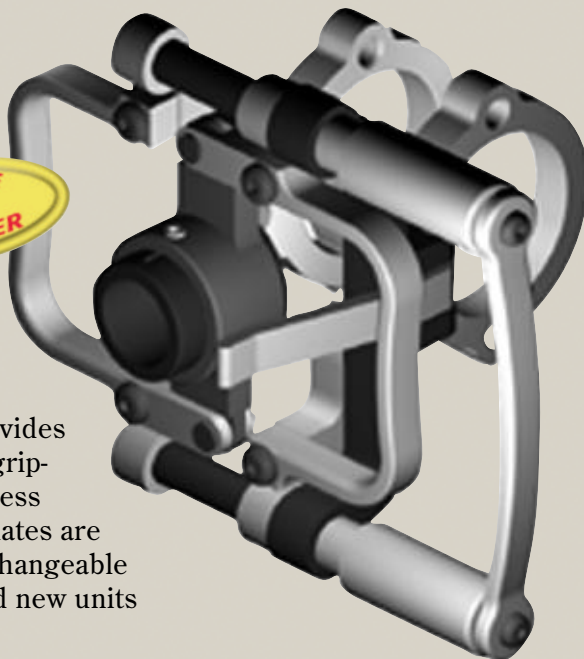
The Lectro-Truck is a battery powered, stair-climbing system capable of moving and manipulating loads up to 1500 pounds. The Lectro-Truck uses a dual-frame system, and an aircraft hardened drive screw to easily manipulate stairs. Lectro-Truck has been proudly manufactured in the United States for the past 30+ years and has safe movers and installers worldwide that rely daily on the Lectro-Truck to move their product safely and efficiently.



LockTools Wild Jig

An interchangeable plate for Baldwin mortise locks is the latest addition to the WildJig 2-mortise installation tool by LockTools. Built from quality steel under demanding quality standards, the jig itself and all plates are backed by a warranty. Changing plates on the tool can be done in less than one minute. The jig itself can be clamped on the door in seconds using only one hand, reducing the time necessary to prepare a door for a new mortise installation. There are no complicated clamp systems, spacing plates or multiple set-up requirements. Instead, the design provides for quick one-hand installation of the jig. A patented grip-centering system assures a limited set up time of less than a minute. A total of seven interchangeable templates are available. In addition to the new Baldwin plate, interchangeable plates are available for Yale, Sargent and Schlage, and new units are continually being developed.

**CIRCLE
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NUMBER**



Lockmantools Multi-Tool

The locksmith Multi-Tool by Lockmantools has over 25 specific locksmith functions. Designed by a locksmith for locksmiths, the tool can service a variety of different hardware for Schlage, Baldwin, Corbin/Russwin, Lori, Adams Rite, Master padlocks, Medeco, Arrow, Jackson crossbars and many others, the company says. The tool is made of bead blasted stainless steel for extra durability and folds up to 4 inches closed. A ballistic cloth carrying case clips onto the user's belt for fast access and convenience.

**CIRCLE
365
NUMBER**



Lockmasters 3-in-1 Scope

This new scope uses a super bright LED light to really let you see into locks and safes. This scope comes with 6 different hard depressors that attach securely to the face of the scope. Using these different depressors you are able to move wafers, read depths of wafers, inspect keyways, and generally get an unobstructed view into the lock. The magnification and illumination of this scope is great. You may also use the speculum for safe inspection. Kit includes 6 Hard Depressors, 1.48" speculum, 2AA Batteries, and carrying case.

**CIRCLE
366
NUMBER**



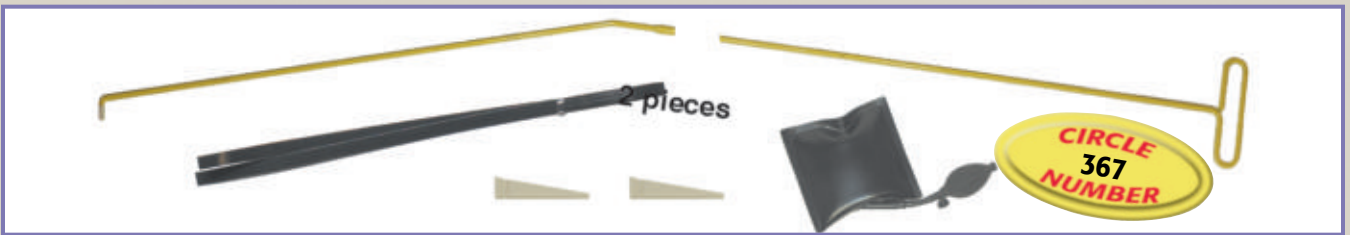
Lock Technology, Inc. Auto Lockout Set

LT-135 2 Piece Easy Access Kit

- 2 Piece Easy Access Tool Collapses For Easy Storage.
- 53" length.
- Rigid design for easy through the window reach.
- Allows you to open the vehicle with the door handle, lock button or electric lock switch.
- Also includes Plastic Slip Jim (LT-100) and 2 Plastic Door Wedges (LT-271).

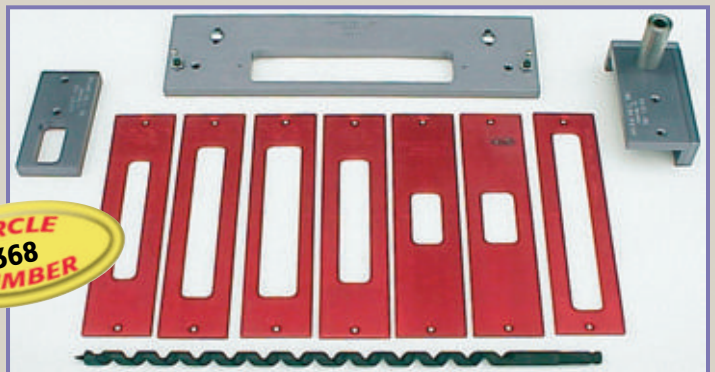
LT-140 2 Piece Easy Access & Inflate-A-Wedge™ Kit

- 2 Piece Easy Access Tool Collapses For Easy Storage.
- 53" length.
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- Allows you to open the vehicle with the door handle, lock button or electric lock switch.
- Also includes Plastic Slip Jim (LT-100) and 2 Plastic Door Wedges (LT-271) and an Inflate-A-Wedge™ (LT-275).



Major Mfg.'s HIT-33 Template System

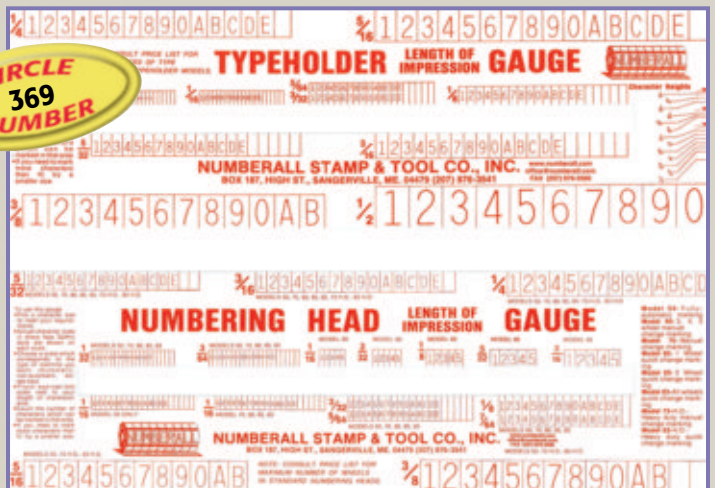
Major Manufacturing has introduced a new router template installation system. The HIT-33 series features a main template base that mounts to the door edge using drill screws or double headed nails. The base component serves as a platform for interchangeable routing templates for the installation of knob, deadbolt and mortise lock face plates. In addition, the HIT-33 series can also route openings for extension flush bolts with 1" or 1 1/4" wide faces. A carbide tip drill and guide is also available to drill from the top of the door to the flush bolt.



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A unique Impression Length Ruler that aids customers in determining the proper character sizes that will best suit their marking requirements is now available from Numberall Stamp & Tool Co., Inc. This gauge facilitates determination of the impression lengths directly in the areas to be marked, without the need of a separate ruler and accompanying calculations.

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Unlock the savings with Drill Doctor The Drill Bit Sharpener. Drill Doctor is a precision tool that is fast and easy to use. It will sharpen your dull and broken bits in less than 60 seconds. You will get professional results that allow you to keep on working, instead of interrupting your job to buy new drill bits. Drill Doctor will sharpen twist bits from $\frac{3}{32}$ " to $\frac{3}{4}$ ", and will sharpen high-speed steel, carbide, Tin-coated, cobalt and even masonry bits. Work Sharp, Work Smart with Drill Doctor.



PRO-LOK's Service Call Dispatch Book

Part#: LT430

Description: Service Call Dispatch Book

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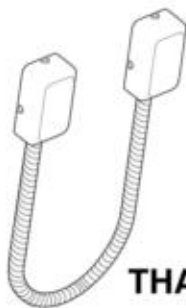
Tri-City Lock Co. Hole Saw Alignment Guides

The Hole Saw Alignment Guides are made by Tri-City Lock Company in Groveland, CA, which is owned and operated by Daniel and Sharon Mello. There are four guides available: $1\frac{1}{2}$ " dia., $\frac{3}{4}$ " dia., $\frac{7}{8}$ " dia. and $\frac{5}{8}$ " dia. These guides are used in conjunction with a hole saw and will enlarge existing holes to the size of the hole saw used with it. The guides can be purchased separately or as a set.





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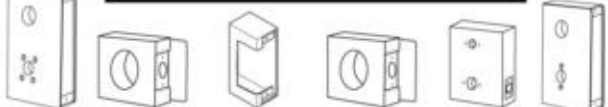
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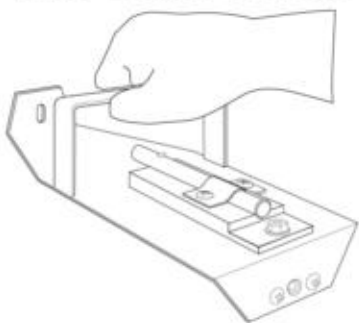


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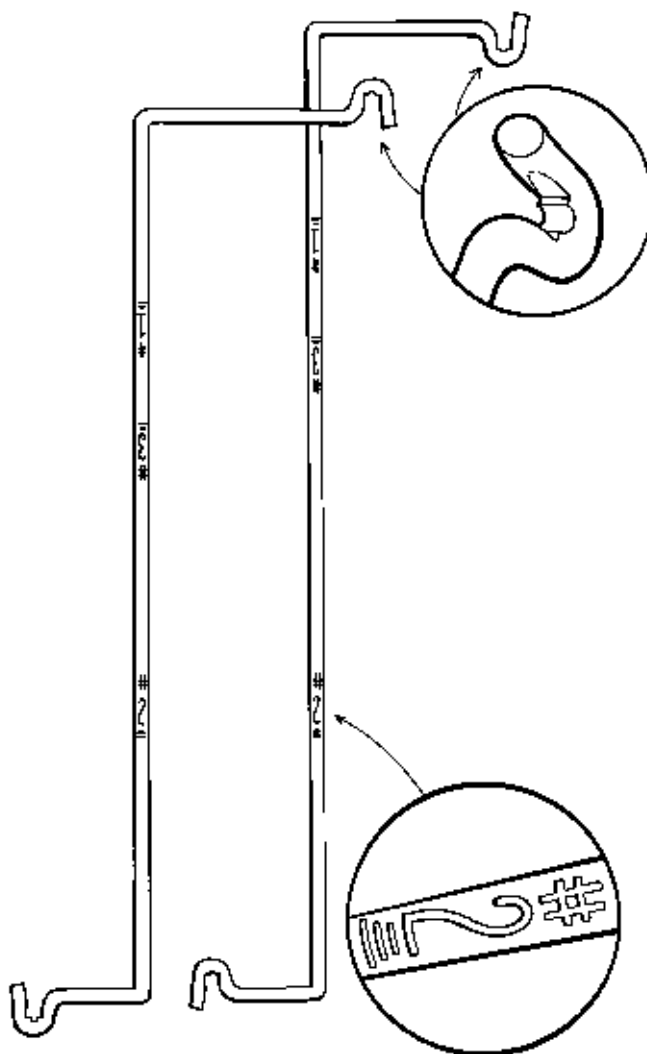


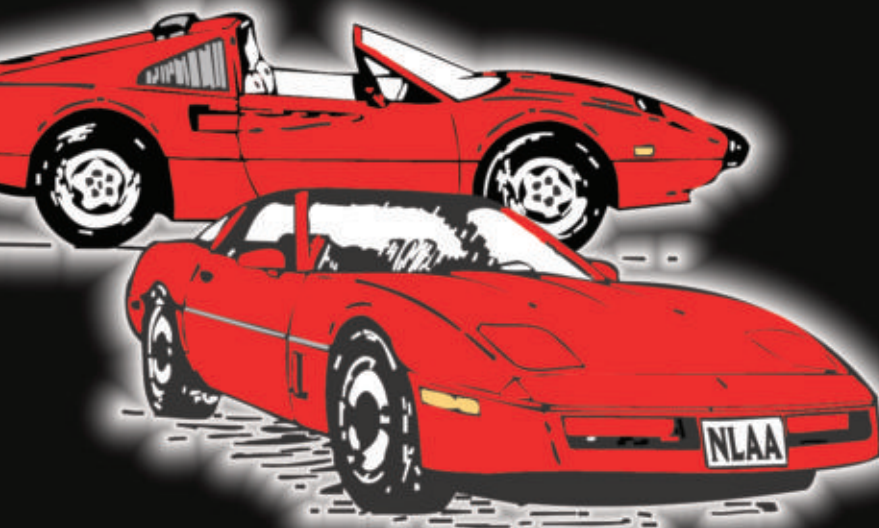
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2004 Expedition

Part 2 by Michael Hyde & Brook Francisco

Last month we covered the ignition lock removal, disassembly and key programming. This month we conclude this series covering the glove box lock, door lock removal and disassembly.

Glove Box Lock Removal and Disassembly:



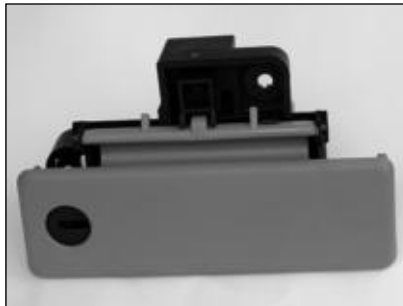
1. The glove box lock is very easy to remove. Unfortunately, it only holds the 6, 7 and 8 position wafers, which is not enough information to generate a key.



2. The lock is held in by three Phillips screws.



3. Remove the screws and the glove-box lock can be removed.



4. The lock and paddle removed.



5. There is wafer-style retainer that holds the plug in the housing.



6. To remove the plug, apply slight pressure to the back of the plug, while at the same time depressing the retainer and raking the wafers from the front.



7. The plug will easily come out the front of the lock.



8. You can see the tip tumblers, positions 6, 7 and 8. Note the wafer-style retainer at the rear of the lock.

Door Lock Removal:



9. The driver side door lock is only one external lock on the 2004 Expedition. This lock contains wafer positions 1-6 and the Strattec part number is 703362.



10. Removal of this lock is not difficult, but it does require removal of the door panel.



11. Begin by removing the single recessed screw on the edge side of the panel.



13. There is a plastic trim piece that must be removed.



14. Gently pry out the plastic trim piece under the grab-handle.



12. Next, remove the two screws at the bottom of the panel.

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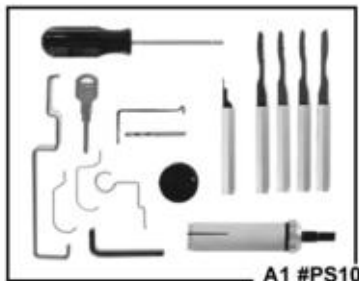
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**15. Remove the two torx
screws securing the panel to
the door frame.**



**16. Now remove the plastic trim
cover from around the inside
door lever. Use a tool to loosen
the trim on the left side.**



**17. Gently unsnap the rest of
the trim.**



18. A View of the trim removed.



**19. Note the positions of the
three retainers on back.**



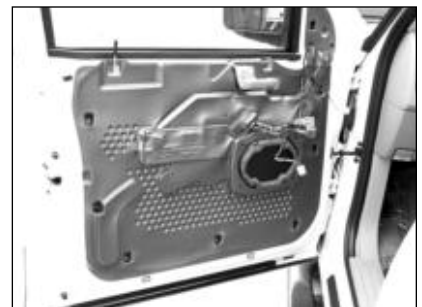
**20. Now the panel is ready to come
off. Unsnap the top corner section,
lift upward and remove the panel.**



**21. Take care when
disconnecting the power window,
lock and mirror switches.**



**22. The door panel can now be
removed and set aside.**



**23. The plastic cover will have
to be removed.**



**24. Peel back the cover to
reveal the inner door panel.**

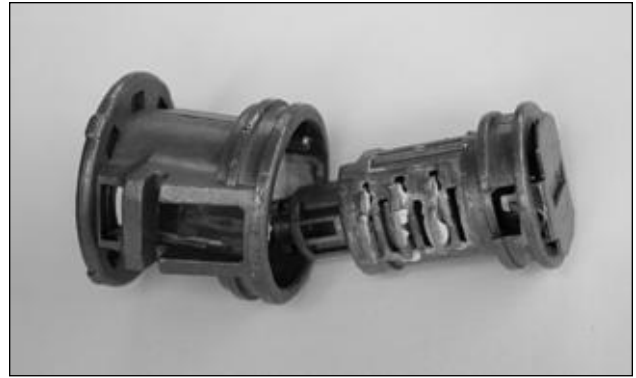


**25. The lock is held in place by a
"C" shaped spring clip. Remove
the clip and disconnect the lock
linkage and the lock can be
removed from the handle.**

Lock Disassembly:



26. To disassemble the lock, begin by removing the tailpiece.



28. After the cap has been removed, the plug can come out the front of the lock.

27. Next you will need to remove the face cap. The easiest way I found to do this is to pry outward on the edge of the face-cap and twist the cap off. If



you do it carefully you can reuse the old face cap.



29. Note tumbler positions 1-6 are found in the door. **END**

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by
Adam Weinraub

Acura TL & Audi A4

CAR OPENING

Acura • TL

Year: 2004-

Linkage: Horizontal

Pick: CW DSO

Tool: AO31 "MCOT-Button-Lifter Tool"

PREFERRED OPENING METHOD

This model was redesigned in 2004. This model has cable linkage in all doors.



Tool:
AO31
"MCOT-Button-Lifter Tool"

1. Insert a pump wedge at 9" from the rear edge of the window glass of the front passenger door. Inflate wedge.
2. Insert an AO31 "MCOT-Button Lifter Tool" at 6" from the rear edge of the window glass, tip facing rearward.
3. Lower the AO31 8" into the door cavity and rotate beneath the bottom edge of the window glass. Deflate wedge. (Photo 2)
4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the 45° clockwise. Position the tip of the



Acura • TL

tool next to the button head. Bind the tool onto the button head. (Photo 3)

5. Lift the button head to unlock the door.

ALTERNATE OPENING METHOD

1. Insert a pump wedge at 14" from the front edge of the window glass of the front passenger door. Inflate wedge.
2. Insert AO35 "MCOT-Wide Tool" at 10" from the front edge of the window glass, tip facing forward.



Acura • TL Photo 2.



Acura • TL Photo 3.



Acura • TL Photo 4.

3. Lower the AO35 into the door cavity and rotate beneath the bottom edge of the window glass. Deflate wedge.
4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool 90° counter-clockwise and position the tip of the tool on top of the electric lock-unlock button. (Photo 4)
5. Push the electric lock-unlock button to unlock the door.

Audi • A4



Audi • A4

Year: 1999-2002

Linkage: Vertical

Pick: High Security

Tool: AO35 "MCOT-Wide Tool"

PREFERRED OPENING METHOD

This vehicle was redesigned in 1999. The A4 and the A4 Avant wagon open by the same method. This model opens the same as the S4.

1. Insert a wedge at 3" and a wedge at 11" from the front edge of the window glass of the rear passenger door.
2. Insert an AO35 "MCOT-Wide Tool"



Tool:
AO35
"MCOT-Wide Tool"



Audi • A4 Photo 2.



Audi • A4 Photo 3.

between 4" and 9" from the front edge of the window glass, tip facing forward. (Photo 2)

3. Lower the AO35 into the door cavity. Rotate the tool beneath the bottom edge of the window glass. Remove the wedges.
4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool counter-clockwise and position the tip behind the inside pull handle.
5. Rotate the pull handle rearward to unlock the door. (Photo 3)

This material was excerpted from "The Best Damn Car Opening Manual Period!" by PRO-LOK. For more information and availability check with your distributor or Phone: 714-633-0681; Web: www.PRO-LOK.com



The Yale eBOSS™



by
**Richard Allen
Dickey**

In August of 2004, Yale Commercial Locks & Hardware, introduced the Yale® eBOSS™. The eBOSS™ is a grade 1, cylindrical, electrified, digital keypad lockset with a three hour fire rating. It is designed to provide the industrial, commercial and residential marketplace with secure and reliable, keyless entry, *(see photograph 1).*

The new e5400LN Series eBOSS (Electronic Battery Operated Security Solution) features patent pending keypad blinders. In addition, eBOSS's patented freewheeling lever provides both impact and vandal resistance.



1. Here is a nice look at the Yale eBOSS (electronic battery operated security solution).

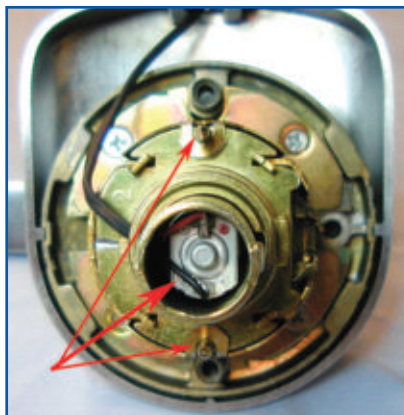
Before I get into the features of the eBOSS, I have to tell you about the finishes. There are a variety of colors as well as types of finishes. You have the brass in bright and satin as well as satin bronze that has been blackened or just clear coated. There is also nickel and chrome. You can even get black powder coating. But that is not the end of the finishes!

There is a new type of finish available that is too good to be true. It is a finish called PVD. PVD (Physical Vapor Deposition) is a technologically advanced fin-

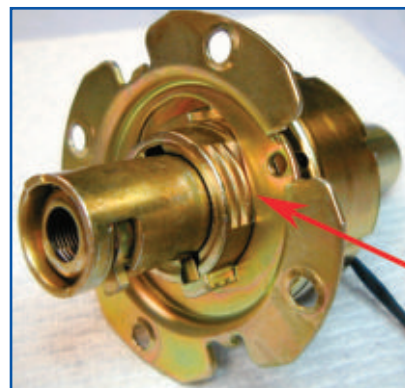
ish coating that provides the ultimate surface protection against environmental elements and everyday wear and tear. PVD matches clear coated finishes in appearance, yet surpasses them in durability. Yale warrants all its PVD finishes against corrosion, tarnish, wear, discoloration and peeling for the lifetime of the part to which it has been applied. Wow! Now back to the lockset.

The eBOSS has been engineered with both designed firsts as well as proven technology from other companies. Most of

Continued on page 30



2. The lock engagement motor is the same as used on the Securitron SABL reviewed a few months ago.



3. Yale has included a patented adjustment assembly to compensate for different door thickness.

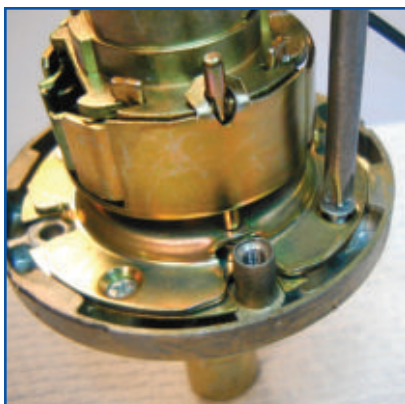
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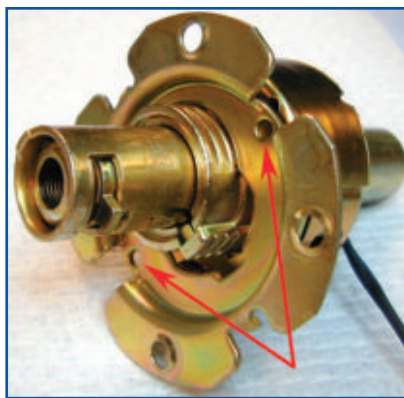
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4. Removing the chassis from the spring housing is required when adjusting door thickness.



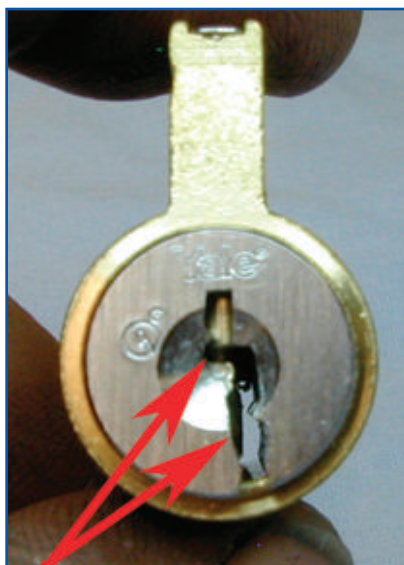
5. Pins are removed and the adjusting plate is shifted to the appropriate slot.



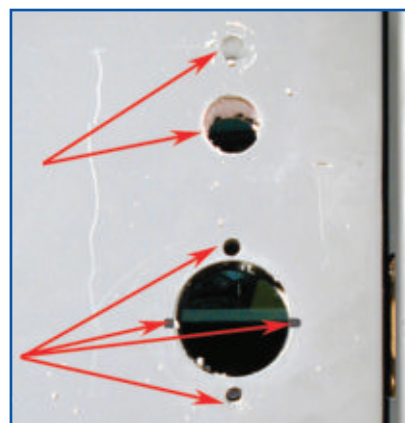
6. The keypad uses stainless steel buttons for long life.



7. A stainless steel back plate is also included on the keypad assembly.



8. The Yale Keymark patented cylinder design makes key duplication very difficult, as well as picking or impressioning.



9. The door preparation for this lock is much like you would expect.

the lock chassis is identical to the Securitron SABL that was reviewed several months ago. But while the motor and adjusting pins are identical, the way the chassis is adjusted for door thickness is not, (*see photograph 2*). The eBOSS uses a patented door thickness adjusting system, (*see photograph 3*). Slots are cut into the chassis that correspond to 1-3/4", 2" and 2-1/4".

To adjust for door thickness, you first separate the spring housing from the chassis, (*see photograph 4*). Next, two locking pins are removed and the adjusting plate is slid up and over to the desired door thickness, (*see photograph 5*). This is very fast and accurate.

Here is a look at the basic operation and a few features of the eBOSS™.

- The outside lever is always

locked except when the lock is in the passage mode.

- The inside lever is always engaged to allow egress. Available with or without key override.
- The eBOSS™ allows up to 94 individual user codes.
- Codes may be from two to seven digits in length followed by the * key, and digits may be repeated.
- All programming is accomplished from the keypad.
- Lock will unlock for a user definable duration of 1-255 seconds then re-lock.
- If lock is in lockout mode, the yellow LED will light, indicating denied entry.

- If enabled, the green LED will light upon each depression of a key and for the duration that the lock is unlocked.
- If the audible sounder is enabled, it will beep concurrently with the LED as keys are depressed.
- If an invalid code is entered, the red LED will light and an audible sound sequence of one long beep, followed by four short beeps, will indicate denied entry.
- The modular design means there is no need to replace the entire lock if a portion of the lock is damaged. You will also be able to add or remove upcoming modules such as proximity access control without removing the lock chassis.
- Weather Resistant Keypad allows exterior application without the use of gaskets.

Continued on page 32



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Circle 304 on Rapid Reply

- The eBOSS meets accessibility guidelines of the Americans with Disabilities Act and the requirements of Uniform Federal Accessibility Standards and ANSI 117.1, all requiring ease of accessibility for the handicapped.
- The eBOSS keypad also meets ADA 12-button telephone requirements.

The list of features is very long, but I have to stop somewhere, so this is where I want to shift gears and talk a little about the keypad.

The keypad uses stainless steel keys, (see photograph 6) and back plate, (see photograph 7) with a silicone based internal gasket. This is where it gets its water resistant design without requiring the use of a separate gasket when installed. Because of the modular design, the lock chassis can be installed and tested before the keypad is attached.

I will give you a look at this a little later.

One more really cool thing before we head to the installation phase is the cylinder. This is a patented keyway cylinder called the KeyMark® line. Yale KeyMark's utility-patented Security Leg® keyway features increased resistance against picking and impressioning as well as key duplication, (see photograph 8). It can easily retrofit into existing systems.

So where is the perfect home for this bad boy! Well, this lock will be used to protect a combination, safe room and gun vault. The door is of the hollow metal variety and will take very little effort to prep for the lockset.

Photograph 9, shows the additional holes needed for installation. They are the common notches in the side of the hole for the chassis as well as the through bolt holes above and below the hole for the chassis. The two holes at the top of



10. The modular design allows the lock chassis to be installed and tested before the keypad is installed.



11. The electrical connector.

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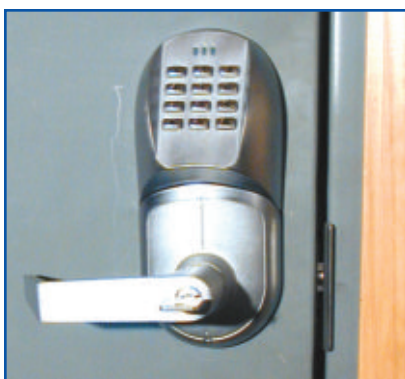
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12. Here is the finished installation as viewed from the secure side of the door.

the photograph are for the keypad and inside circuit board assembly.

Photograph 10, gives you a look at the lock chassis and rose assemblies installed on the door. The electrical connecting cable can be seen in *photograph 11*. *Photograph 12*, shows the completed installation from the outside. *Photograph 13*, is a finished view from the inside. The electronic circuit board and batteries are located under the tall shiny cover.

All standard programming of the eBOSS is performed through the keypad. Here is a list of the programmable options that the eBOSS has to offer.

- Master Code
- Supervisor Code
- User Codes
- Emergency Code
- Lockout Code
- Passage Code
- Key Press Feedback
- Factory Code Reset
- Re-Lock Duration
- Keypad Lockout
- Secure mode
- Lockout
- Passage mode

The eBOSS E5400LN Series Cylindrical Lock keypad, printed circuit board and components are warranted to be free from defects in workmanship and materials under normal use and service for 3 years from date of delivery. In addition, the lockset



13. This finished view is from the inside of the door.

carries a lifetime warranty against lever sag and lever spring breakage. The PVD Finish also comes with a lifetime warranty.

For more information about the eBOSS contact Yale commercial locks and hardware at 800-438-1951 or visit their web site at www.yalecommercial.com. Circle 351 on Rapid Reply. **TNI**

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Circle 323 on Rapid Reply

April 2005 • 33



Emergency Response Kit:

Deluxe soft case, Super Air jack, One Hand jack, Super One Hand Jack, Glass Man, Rubber wedge, Remote control Button Master, Mighty Max 2 piece Long Reach tool, Flexible Long Reach Tool

Sale Price # ERK \$129.95



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Lever Lock INSTALLATION



by
Sal Dulcamaro,
CML

ADA was designed to provide greater accessibility to the disabled. One of the requirements of ADA was to replace knob style handles with lever style handles on locksets. Among the unintended consequences was that greater accessibility was not limited to the disabled. Physical compromise became much simpler on lever handle locks in contrast to knob style locks, and thieves and others seeking to bypass or defeat locks found a friend in ADA.

While switching from a knob to a lever handle would not necessarily reduce the required torque to force a lock, the lever handle acts like a built in wrench permanently attached to the lock. Where forcing a knob might require the use of vise grips or a pipe wrench to generate necessary torque for physical compromise, a lever handle lock has a built-in force tool: the handle itself.

Over the years lever handle locks have been redesigned (and reinforced) to deal with the innate weakness of a lever handle lock, in order to strengthen them against attack. As a result, you

will find that most (grade 2 or better) key-in-lever cylindrical locksets now require extra holes added to the standard 2 1/8" diameter crossbore door prep. While paper templates are typically included with most new locks, a number of companies have designed installation jigs to help maintain accuracy in drilling and to otherwise speed up the installation process.



1. Schlage's low cost plastic drill guide.

Early on, Schlage made a low cost plastic drill guide that fit into the existing 2 1/8" diameter crossbore hole, (see photograph 1). Within the plastic housing, there were metal drill guides that helped line up the auxiliary mounting holes that were just above and below the crossbore hole at 12 o'clock and 6 o'clock position.



2. Marks drill guide for installing its Survivor Series key-in-lever locks.

Marks, which manufactures a variety of door hardware, makes up its own drill guide for installing its Survivor Series key-in-lever cylindrical locks, (see photograph 2). This drill guide is also designed to work with Medeco brand lever handle cylindrical locks. This drill guide is adaptable for 2 3/8" or 2 3/4" backsets. Like the Schlage drill guide, it is only for drilling the extra mounting holes for a door that is already prepped with a 2 1/8" diameter crossbore hole. A completely un-prepped door would require that you drill the standard cylindrical lock installation holes first, before you could use these drill guides. Once the standard crossbore holes were in the door, the drill guides would work with those existing holes to help positioning.

InstaCode 2005

W.H. Software

Locksmith Management Software

InstaCode Software has changed to fit new market demands. The software is now offered as a base package, with available add-ons. The base package contains all the codes, card printing, electronic key machines, find partial bittings, cutting trees, graphical layouts, etc.



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Pocket InstaCode requires a Pocket PC (not included) with 64mb RAM running Microsoft Pocket PC2000 or later. Contains all the codes but not all the features of *InstaCode*. Call for details.

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3. Major Manufacturing's versatile drill guide for installing lever handle cylindrical locks.



4. The lock mount with auxiliary mounting holes vertically positioned just above and below the standard 2 1/8" diameter crossbore hole.

Major Manufacturing makes a more versatile drill guide for installing lever handle cylindrical locks. This unit will allow you to drill auxiliary holes in positions other than directly above and below the centerline of the crossbore hole, (see photograph 3). While most types of cylindrical lever handle locks require the auxiliary mounting holes in those standard positions, a few brands require drilling those holes in diagonal positions.

With no drill guide attached, you can see the lock mount with auxiliary mounting holes vertically positioned just above and below the standard 2 1/8" diameter crossbore hole, (see photograph 4). You will find

the diameter of these holes will vary from brand to brand, although drilling slightly oversized will not necessarily completely ruin the lock installation as long as the trim plate is not too narrow to cover the holes. The radius measurement to these lock

reinforcing guides holes (from the center of the crossbore hole) will also vary by brand. While extreme precision is not typically required to drill these auxiliary holes, and drilling free hand is not an absurd thought; a drill guide or jig will typically speed up installation, especially when many locks are being installed.

A Marks key-in-lever cylindrical lock illustrates the protruding parts that will fit through those auxiliary holes to reinforce the lock installation, (see photograph 5). The wide trim of the lock conceals the auxiliary mounting holes, (see photograph 6). You will typically find that most key-in-lever cylindrical locks will have a wider trim than the previous generation key-in-knob locks. Converting from knob to lever will require drilling the extra two holes, while converting from lever to knob would likely leave those holes exposed unless you used a cover plate wide enough to conceal the additional holes.

You will find that converting a door from cylindrical key-in-knob to cylindrical key-in-lever lock is a relatively clean and painless job. Conversion of mortise or rim locking devices from knob to lever handle are often much more difficult, although some are very well designed and fairly easy to convert. If you only use a jig or



5. A Marks key-in-lever cylindrical lock fits through those auxiliary holes to reinforce the installation.



6. The wide trim of the lock conceals the auxiliary mounting holes.

drill guide once, it will typically not be very cost efficient. If you, however, have a large individual job or use the tool regularly, the time saved may more than pay for your installation tool.

For more information on the manufacturers listed contact your local distributor or:

Schlage

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MARKS U.S.A.


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Circle 311 on Rapid Reply

Literature & Brochures

We all know that there is very little that is free in life anymore. When there is, it's best to take advantage of it. Such is the case of manufacturers literature and brochures. Most have available for the asking product brochures or product catalogs designed to show their latest product offerings and specification information. And we all know that there is no substitute for information, so get all you can, especially if it's free!

By circling the **Reader Response (RR) number** associated with each manufacturers press release on the Reader Response card provided in this magazine and dropping it in the mail, valuable information will be sent to your door step. It doesn't get much easier to build your personal library of valuable information.

Adams Rite

Adams Rite Manufacturing Co. designs, manufactures and

markets door and door hardware products to the commercial, industrial and institutional building construction industry. Our product line includes locks, latches, electric strikes and exit devices for exterior and interior doors as well as integrated door assemblies. Adams Rite sells its builders hardware products in both the United States and abroad, and is recognized as one of the leading suppliers in its area of specialization. Our products are designed to complement the clean lines of modern doors, while at the same time meeting safety and access codes.

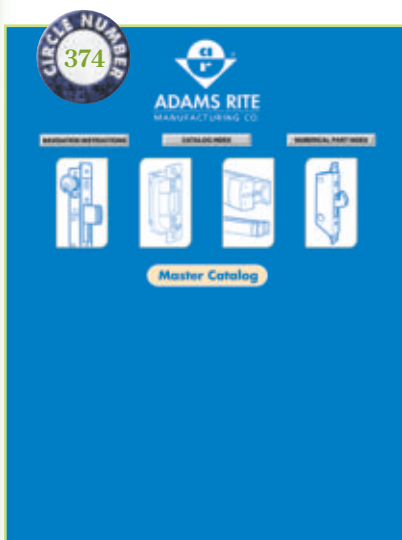
Advance Metalworking Co., Inc

The Advance Metalworking Co., Inc. manufactures the Lift-a-Load elevating platform trailer. This trailer simplifies any loading or delivery situation due to its unique ability to

hydraulically lower to ground height, raise to dock height or any level in between while remaining level throughout the procedure. When lowered, the trailer allows a minimum loading angle providing easy, drive-on access. Lift-a-Load trailers are available with straight tongue or gooseneck hitch, single or dual axle with capacities from 4,400 to 15,000 lbs.

Aiphone Communication Systems

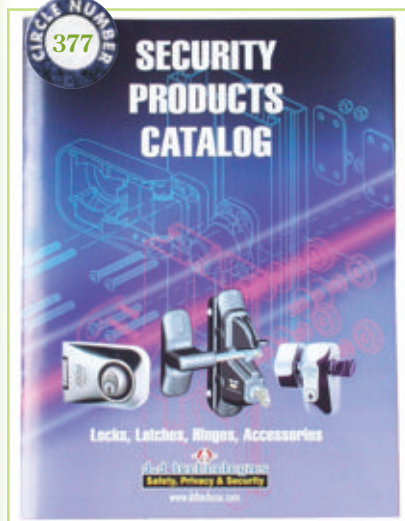
Aiphone's newly improved 2005 General Line Catalog was designed to increase ease of navigation through Aiphone's 40+ systems' worth of product pages. It includes an augmented 'Table of Contents' with system recommendations by market, a 'Market Recommendation Section' for showing where Aiphone fits into your market and



application. Included as well are 'New Product Focus Pages' and enhanced System & Accessory pages. Designed and produced in the United States, aimed exclusively toward the US Marketplace.

D&D Technologies' Security Products Catalog

D&D Technologies' Security Products Catalog features D&D's



gate hardware lines, including Magna-Latch® magnetic self-latching pool and safety gate latches; Tru-Close® adjustable, self-closing gate hinges; Lokk-Latch® pedestrian and privacy gate latches; DecoMold T and strap hinges; Mini-Multi Adjust hinges, and the Lokk-Latch Round—all rust free, with no jamming, sagging or staining. The catalog also features D&D's stainless steel Forté quality commercial and industrial gate and door locking products, designed to replace hasp and padlock systems.

DORMA

A 12-page brochure from DORMA Architectural Hardware showcases the company's CL/CK 700 Series of Grade 2 cylindrical locksets.

Designed to help buyers select the best lock for their needs, the color brochure highlights the 700 Series locks' two lever (CL) and two knob (CK) trim designs.



Ideal for where ANSI A156.2 Series 4000 Grade 2 products are required, DORMA's 700 Series locks are manufactured with stainless steel and zinc dichromate steel, providing exceptional reliability and enhanced durability. They are designed to install easily in both wood or hollow metal doors.

Continued on page 44



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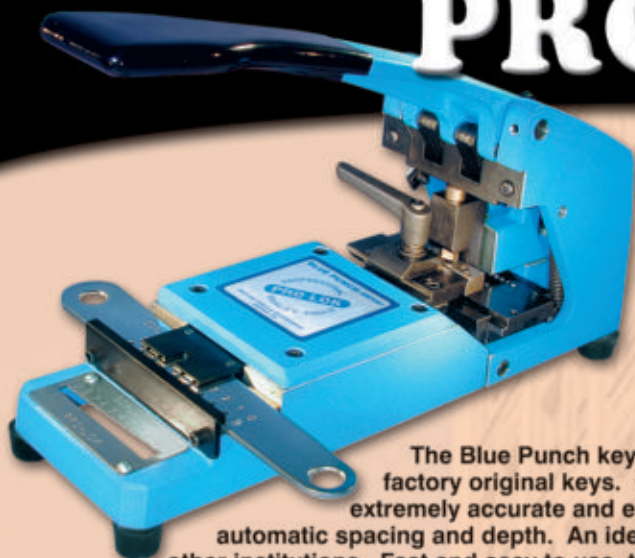


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BP201

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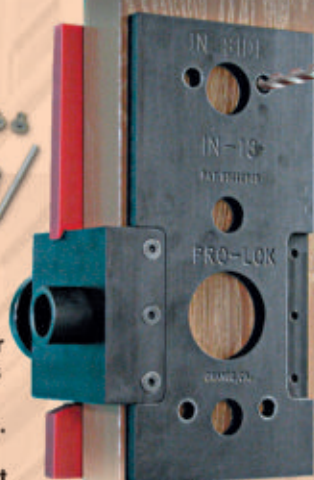
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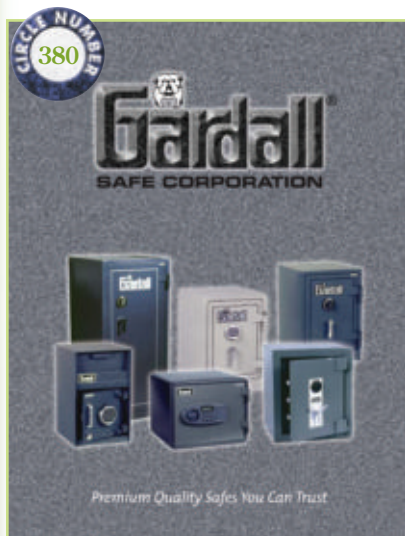
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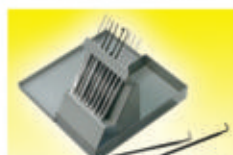
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The ABC's of CCTV SYSTEMS

by Jeffrey Dingle, CPP

A woman is kidnapped in Lexington, Kentucky and forced by her abductor to go on a shopping spree. In Houston, Texas, a citizen is shot and robbed at an ATM machine. At 9 a.m. on April 19, 1995, a bomb exploded in Oklahoma City, killing eight Federal Agents and over 100 civilians and children. Reliable eye witnesses to a crime are difficult to come by even under the best of circumstances, but all three of these incidents had something better than an eyewitness: video based evidence. All three were recorded on video by closed circuit television systems.

Closed Circuit Television (CCTV) systems offer a useful addition to any facility security system. Closed circuit television systems are designed to offer an additional set of eyes, provide a permanent record of activity, and be where the protection professional cannot, or does not want to be.

Closed circuit television systems are simply electronic surveillance, and surveillance generally falls into

one of two categories, specific surveillance and general surveillance. Specific surveillance involves looking for a specific incident or persons. Equipment is portable and temporary, and often involves warrants. Specific surveillance involves watching a target location or person and manually turning cameras and recorders on and off when the targeted suspect is seen. Specific surveillance is usually associated with an investigation, and is conducted in response to a specific incident, with a specific result expected.

In what CCTV expert Charlie Pierce calls "the unblinking eye" general surveillance involves cameras and recorders that are permanently installed and aimed in general directions. The intent is to have a record of a general area, without a specific result expected. General surveillance is usually associated with general facility management. Continuous coverage is provided for areas that are high risk such as an automatic teller machine (ATM), or areas of high probability to record significant information, such as an exterior entrance into a facility.

General surveillance systems can also be a very effective deterrent. Wal-Mart stores use a video surveillance system in many of their stores. As a deterrent, they display the recorded image on a screen at the entrance to each store. This shows a potential criminal that his presence in the store is being recorded.

A closed circuit system is comprised of a camera, transmission method, monitors and a recorder. State-of-the-art cameras are now smaller than a pack of gum, and can transmit in color or black and white. Cameras are widely available from many manufacturers. While at first color seems to be a better choice, black and white is often functionally preferable. Color systems do not work well in low light applications, and various types of security lighting can skew color accuracy. Cameras are available for any application, including low light and environmentally (heat/cold/rain) protected.

The video signal is most commonly transmitted through coaxial cable, but can be transmitted

Continued on page 50

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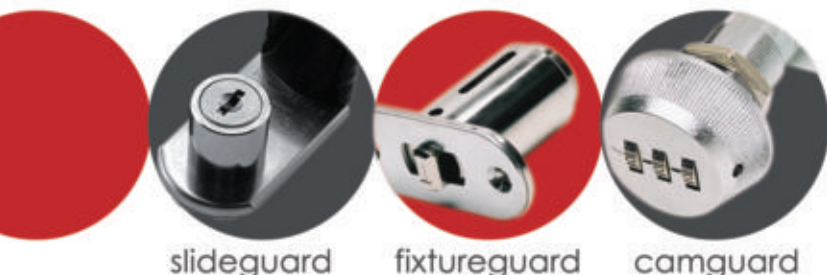
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through fiber optic cable, a twisted pair, radio frequency (RF), microwaves or through telephone lines. Transmission through network systems is possible as well. Monitors range in size from four inches up to 25 inches or more. Multiple video signals can be sequentially displayed on a single screen, or simultaneously displayed on individual screens, or pushed through a splitter and displayed on a single screen.

Closed circuit systems allow visibility of areas that are too dan-

gerous to view in person, and allow a single person to view multiple protected areas at the same time. When used with a video



1. CCTV Monitor.



2. A sampling of various CCTV cameras'.



3. Monitor motion keypad controller.

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recorder, closed circuit systems allow for the establishment of a permanent record.

Video images are constantly recorded (either on tape or digitally) in a general surveillance, and the images are retained for a specific period of time. Tape is reviewed on a regular basis, and any scenes that might contain images or information that will be needed later are retained. General images on average need to be retained for a period of at least 30 days, in the event that a problem is discovered. If video

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tape is used, at least 31 tapes are required for each recorder. One tape is used for each day of the month, then used again on the same day the next month.

In order to record constantly and cover longer periods of time, time-lapse recording equipment should be used. Time-lapse equipment, whether digital or tape based, records at a slow rate, one frame at a time. A frame will be recorded (a still image will be captured), and after a specified number of seconds, another frame will be recorded. The time between frames determines how much space is required to store images, and how many hours can be stored on a single tape. Time-lapse recorders can record up to 960 hours (40 days!) on a single commercially available T-120 tape. Slower speed means a "time-lapse" between the recording of the images. In the 960 hour recording mode, an image is captured every 8 seconds.



4. CCTV camera in a ceiling mount position.



5. Camera in a wall mount position.

Most commercial video tape recorders units offer a choice of multiple recording speed and playback speeds, ranging from 2 to 960 hours.

Digital recorders have reached a point where quality units are available for less than \$400.00. Digital recorders are

tapeless, and store images on a hard drive. On a recent Internet search, I found a single channel unit that would record up to 2580 hours (over 100 days) in a time-lapse low resolution mode, priced at \$399.00. The larger the hard drive, the more images can be stored, and the longer time period can be covered.

Essential to any video surveillance system is a time-date generator. A time-date generator constantly displays the time and the date onto the recorded field of view. This allows for an exact record of the time and date of when an incident is recorded. Most recorders have this feature built in. It is important that the time and date be set, and checked on a regular basis. A recorded image that is incorrectly time and date stamped may create a liability (or be inadmissible) in the event that an incident is recorded.

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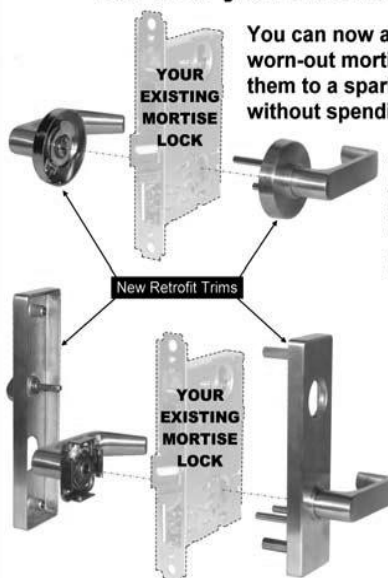
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CCTV systems are designed and built in two basic configurations; covert and overt. One of the inherent advantages of any security device is that it is usually visible, it can be seen. This visibility greatly adds to the deterrent factor useful in overall security operations. Overt security devices, by design, deter people from committing criminal acts. Covert systems are not seen. Covert security devices offer much less of a deterrent factor, but generally increase the chance of catching a criminal "in the act" of committing a crime. The devices are hidden, and most people will not know that they exist. Covert systems are used in permanent applications when it is not appropriate to have a surveillance system, such as in some dignitary protection situations, and in temporary situations where a specific item or area is placed under surveillance to gather information.

A recent theft case was easily solved with the use of a covert CCTV system. In this case, liquor was being stolen from a caterer's liquor storage area. The storage area was a room with one locked door. While only a few people had access to a key, the door opened into an area that was impossible to physically watch without being noticed. Additionally, while the loss of liquor was noticeable, it was not known when the thefts were occurring. A small camera was placed behind the drop ceiling, and a pinhole lens was used to view through a small hole in the ceiling tile. Optimally, a coaxial cable or twisted pair would be run to a recorder and monitor that is accessible only to the investigator, so that the tape could be changed with minimum difficulty. In this case, the time-lapse recorder could only be placed in the room next door because of the existing floor to

ceiling fire walls (the connecting cable was routed through a HVAC duct). The entire system; camera, recorder and cables was kept in the ceiling. This set-up required that the recorder be accessed every few days to view and replace the tape. A time date generator is extremely important in a situation like this.

In this case, the thief (an employee that had access to the room) was recorded on tape three different times with bottles of liquor clearly visible in his hands. The time-date generator was critical, because it was important to prove that the employee had no business in the room at the time he was recorded. One tape showed the employee in the room at 5:07 PM (he clocked out at 5:01 PM) in street clothes. He was on his way to a party after work, and he stopped at his employer's liquor room to get supplies for his party.

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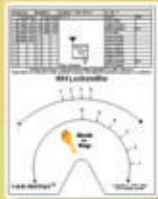
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Overt systems are systems that are clearly visible to the public and employees. A camera hanging near the front entrance is thought to be a deterrent; the knowledge that all activities are recorded is often by itself enough to prevent criminal activities. Camera housings may help as well. Many department stores have significantly more camera housings than cameras. It's the job of the shoplifter to figure out which housings have cameras and which don't.

Tenants and employees have on occasion expressed concern about having their activities monitored, while employers feel that CCTV is often a step toward keeping people honest. After all, if you're not doing anything wrong, you don't have anything to worry about.


Surveillance systems have other applications as well. During the first season at the Atlanta

Brave's Turner Field, Coca-Cola offered a million dollars to the first person to catch a home run hit into the Coca-Cola Pavilion high above the stadium. Cameras and recorders were in place to record the person that actually catches the "million dollar ball".

While no protection program can prevent all types of criminal acts all of the time, a program utilizing closed circuit television systems will eliminate or greatly reduce the occurrence of criminal acts. At the very least, it helps by providing a record of events to assist in the investigation and prosecution of criminal acts.

The woman in Lexington, Kentucky maneuvered her captor to a position under a closed circuit camera in a store. The suspect in Houston was convicted, in part due to the surveillance tapes from the closed circuit television in the ATM machine. The Ryder truck was caught on tape in Oklahoma

City on a surveillance system of a neighboring building. Whether you are getting money from an ATM, shopping or catching a baseball at Turner Field, the "unblinking eye" is watching you!

Jeff Dingle is the Assistant Director of Special Projects for Lockmasters Security Institute (LSI) with over 20 years experience in the security business. He has held security specialist and training positions with the Federal Government, and has managed security operations for a former United States President and a FORTUNE 15 company. He can be reached at JeffDingle@LSIeducation.com LSI operates a 24,000 sq ft. state-of-the-art training facility specializing in security education. For more information or complete coursework call 800.654.0637 ext. 200, email education@lockmasters.com or visit www.LSIeducation.com. 

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Servicing the Simplex 1000



by
Ken Holmlund

For more than 40 years Kaba Access Control has been known as a leader in the pushbutton lock arena. The former Ilco Unican Company has redefined itself over the past few years since its purchase by Kaba, a Swiss based Access Control Company. The name may have changed but the commitment to produce quality pushbutton lock products has not. Kaba features mechanical pushbutton locks for residential, industrial and commercial applications: auxiliary locks like the 900, 6200 and the 7000 series; cabinet locks and file cabinet locks; heavy duty primary locks like the 1000 and 5000 series; exit device controls and double sided locks for specialized requirements. Kaba even produces a series of multi-user, audit trail electronic locks.

Although a wide variety of mechanisms are available, the emphasis of this article will be the Simplex 1000 heavy-duty primary lockset (*see photograph 1*). Today, with the advent of ADA (Americans with Disabilities Act) requirements, more lever locks are sold than the knob variety but millions of the knob styles are in the field. You will be called upon to repair rather than replace them.

The Simplex 1000 series lockset is ideal for locations with high personnel turnover or where numbers of people needing access through a door is more than the number of keys you would like to issue due to control or security. The passage feature allows access without using the entry code. This function is on the inside of the door and can be thumb turn or key activated, both of which are included when you order a Simplex 1000 lock with passage option. *Photograph 2*, is the hole pattern



1. The Simplex 1000.

to install the Simplex 1000 with passage function. For the non-passage lock the middle hole does not have to be drilled.

The Simplex 1000 lockset conforms to grade 1 and is a cylindrical lockset with cast front housing; fixed outside knob and free egress inner knob. It has brass unified trim plate and cast or wrought brass knobs. It is meant for doors ranging from 1 3/8" to 2 1/4". Its 1/2" latch carries a 3-hour UL/ULC fire rating for "A" labeled doors. It uses a 2 3/4" backset latch as a standard. A 2 3/8" backset will work and can be purchased separately from Kaba. A 2 1/8" cross bore and a 1" edge bore is required. The Simplex 1000 handing is also field reversible.

Since there are so many of the Simplex 1000 locks in the field, it is necessary to know how to service them. I have found several issues that can be said to be common in the Simplex 1000. In the next couple of articles I will cover them, explaining



2. Hole pattern for installation of the 1000.



3. Combination chamber.

how to service them for the customer. Kaba has available a Simplex 1000 Series repair kit, part number 203035-000-45, which includes all the necessary items to basically rebuild the lock.

The heart of the lock is the combination chamber; (*see photograph 3*). The replacement part number is 74366-000-01 and the same one is used for all of the Simplex 1000 series locks. When the buttons are depressed on the face of the lock, the pressure is transferred to the corresponding chamber key stems, (*see photograph 4*). This action sets in motion

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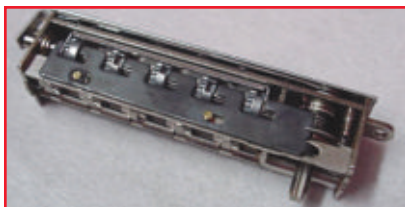


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4. Combination being entered.



5. Code gear in combination chamber.

various key and gear rotations, (*see photograph 5*). A click will be heard when the buttons are depressed with adequate pressure. When the correct combination is entered, the chamber allows the combination chamber linkage, which is attached to the control shaft, to move upwards. This is referred to as the activation mode. Occasionally, the transfer does not occur and the lock will not function. This can be caused by several things that I will cover later but if the problem is in the chamber you will need to replace it. Remove the lock from the door and take out the six small screws holding the back plate to the body of the lock, (*see photograph 6*). Lift the cover off to expose the inner workings of the lock, (*see photograph 7*). The mechanism to allow the passage function is seen in *photograph 8*. To determine if the problem is in the chamber, disconnect the arms from the control shaft and turn the shaft counterclockwise to clear the numbers. If that is not possible or if the transfer still cannot occur, the chamber needs to be replaced.

The chamber is easily removed from the housing by unscrewing the two screws and lifting the chamber out. Remember, the combination chamber linkage must be disconnected before the chamber can be removed. To replace the new chamber, simply slip the chamber in place and replace the screws. Reconnect the chamber shaft linkage and clear the chamber. Try the factory set combination, 2 and 4 together and then 3, and operate the lock. If the mechanism is working correctly, the combination chamber linkage will move upward, and the shaft assembly can turn, (*see photograph 9*). If the problem



6. Back of lock.



7. Inner workings of lock.



8. Passage mechanism.

still exists, the arms will move slightly upward and then move downward, (*see photograph 10*). If the arms do not move upward, the issue may be in another area besides the chamber.

The most likely issue you will encounter is a clutch or parts in the clutch sub-assembly that has malfunctioned. The clutch sub-assembly replacement number is 201430-000-01, and is the same for either hand (*see photograph 11*). I have found the most common manifestation of a clutch issue is that the numbers will not clear in the combination chamber so you cannot



9. Arms in open position.



10. Arms in un-position.



11. Clutch sub assembly.



12. Disconnecting arms from combination chamber.

push the button and feel the click that is the telltale feeling to let you know the number has transferred to the chamber.

What will happen is that when you push a button, you will not feel the click. When you try to clear by turning the knob counterclockwise, you will still not be able to push in the numbers. You may need to replace the clutch sub-assembly, but a simple and less expensive answer may work. I will cover how to get the clutch out in a later portion of this article. You will need to follow the method described to fix this issue.

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**13. Screws holding clutch cover.**

One part of the clutch sub-assembly is a double wave spring; and it is the part responsible for the clearing of the numbers when an incorrect combination is entered, (*see photograph 12*). This double wave spring occasionally becomes weak and does not apply sufficient pressure on the cancellation disc during the cancellation mode. While it is best to replace the spring, a temporary fix is to wrap the spring tightly around your finger. This will increase the curve of the spring and cause it to apply more pressure on the cancellation disc. Reinstall the clutch sub-assembly and test the lock. If you just put in the correct combination, the lock will work even if the issue has not been corrected so you will have to put in a wrong combination to be sure it will clear and accept the correct combination.

**14. Balance spring.****15. Linkage pin.**

To remove the clutch, and/or to get to the double wave spring, disconnect the chamber shaft linkage from the combination chamber, (*see photograph 13*), by sliding the C clips, remove the screws holding the clutch cover, (*see photograph 14*). Remove the balance spring, and lift out the old clutch, taking note of the order the clutch parts must be in to operate, (*see photograph 15*). One note here; be sure to catch the linkage pins, when removing the linkage because they will fall out if they

**16. Clutch backing plate.****17. Knob return spring.****18. Stop plate assembly.**

are not secured (*see photograph 16*). If you have a digital camera, I would suggest taking a picture of each step if it is your first time removing the clutch.

Place the new clutch sub-assembly into place, placing a new double wave spring on the clutch backing plate, (*see photograph 17*). The clutch assembly comes as one part and cannot be bought is separate pieces. With the clutch in place, position the balance spring and clutch cover assembly (not included in the sub-assembly) and replace the screws. If the cover does not fit down snugly, the clutch is not installed correctly and will require taking it apart and realigning the parts.

With the screws tightened, the next step is to replace the chamber shaft linkage on the combination chamber and try the combination. If entered correctly, the linkage will move upward, indicating the lock is now functioning correctly.

The next issue you may encounter requires much of the same procedures I have just detailed with the clutch, as it will need to be removed to get to the cause of the issue. The issue I am speaking about is the knob not returning to the proper closed position. This is caused by a broken knob return spring, part number 201019-000-01, (*see photograph 18*). To get to the spring, remove the clutch as detailed above and

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19. Three posts called bosses.



20. Stop plate assembly behind boss number 3.



21. The stop plate assembly is behind the boss.

then remove the clutch backing plate as seen in photograph 13. Remove the stop plate; and you will see the spring. The stop plate includes the stop plate clutch and a pin stop, (see photograph 19). I have found the pin stop to sometimes be loose or missing and if it is, I suggest replacing them and not trying to repair the part. The part number is 201040-000-01 for the stop plate assembly.


The installation of the knob return spring requires several steps and knowledge of the nomenclature will certainly help with the explanation. As you are looking at the lock with the old spring removed, you will see three posts, (see photograph 20). They are referred to as threaded bosses. When holding the lock with the combination chamber at the top, the bosses are located at 5 o'clock, 8 o'clock and 1 o'clock. How you hold the lock is your preference and if you choose to hold the lock with the combination at the bottom, the boss locations will move 180 degrees. The pictures are with the combination chamber on the top. These posts serve three purposes, one to screw the clutch cover assembly in place, two to hold the spring in place and third is to hold the clutch back plate in place.

To install the spring, secure the small hook of the new spring onto the mushroom shaped stud of the stop plate

assembly. Secure the large hook of the spring over the boss. Now wind the knob return counterclockwise until the stop plate assembly is located behind the boss, (see photograph 21). To facilitate the installation, remove the combination chamber. Then simply reverse the steps taken to remove the spring and assemble the clutch as described previously. Connect the linkage to the chamber and test the lock.

Next month I will look more closely at the brains of the lock, the combination chamber. We will see how to change the combination, what to do if the combination is in a zero code

situation and how to determine the combination if it is lost or unknown. I will also cover a couple more issues I have encountered with the Simplex 1000 and show how to correct them.

For more information, technical help or for literature on the Simplex 1000, contact your distributor or Kaba Access Control. The Kaba technical support is excellent and they are very knowledgeable. You can contact them during their business hours of 8-5 Eastern Time. Phone: 336-725-1331 or 800-849-8324; E Mail: info@kws.kaba.com. Website: www.kaba-ilco.com 

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THE Lighter SIDE

All Locked Up



I'm sure you all know the story of an elderly person, usually a woman, that is convinced somebody is getting into her house. At first, you try to help her by repining all the locks, but this doesn't seem to help. She insists you replace all the locks. After pointless objections, you comply with her wishes. Still, the problem continues, and you eventually come to the conclusion that she's imagining the whole problem. She says it's her new next-door neighbor—a former policeman who knows how to pick open anything, or it's that snippy tramp her brother married, who's trying to steal the family jewelry from her. You listen patiently, try to be helpful without gouging her pocketbook, and hope she's just imagining all this, once you run out of options.

We had one customer who accused an in-law who lived next door of breaking in while she was asleep and stealing her left-over food from the refrigerator. According to her, he even left the dirty containers in the dishwasher. Nothing we said made any difference to her. She was convinced he was the culprit.

But the one who took the cake kept accusing her next-door neighbor, who had recently moved in, of breaking into her house. She called one day to say she had caught him red-handed—not in actually breaking in and stealing,

of course, but looking out her window she could see him out in his back yard, mowing his lawn, in one of her dresses that he'd stolen. We suggested she call the police and report the situation. She did. They came. But they discovered the “man” mowing the yard was the new lady of the house, and the dress—though similar to one our customer had owned years before—had been recently purchased at the local Wal-Mart. The woman had a receipt to prove it.

“Well!” our customer said when the dust settled, “Anyone could have made that mistake. After all, who would ever think a woman would be out mowing the lawn in plain sight, when she has a perfectly healthy husband to do it for her?”

Although ours is a full-line locksmithing operation with storefront location and 24/7 mobile service available, and we handle more commercial work than openings, it seems a lot of our business centers around people locked out of (or into) cars and buildings. Don got a call recently from a man whose keys were locked inside his vehicle. Nothing unusual. When he arrived at the scene, a quick glance told him someone had been there before him, attempting to get it open. A couple of Slim Jims remained firmly fixed inside the driver's

door. Without comment, Don chose the proper opening tool for the job and walked toward the passenger door.

“Hey, wait a minute,” the vehicle owner called out. “Aren't you going to take these things out of the door?” He gestured toward the Slim Jims that were swaying gently in the breeze.

“Nope,” Don said. Then he gave his standard response to that question. “Those aren't mine. You'll need to get whoever put them there to get them out for you.”

“He already tried, and couldn't get them to budge. Said they seemed to be hung up on something in there.”

“He's probably right about that, and if I try to get them loose, I might break some of the linkage inside your door, and then I'd be stuck having to get it repaired.” Don walked up to the passenger door, paused, and smiled.

“That other guy worked on it at least a half hour, trying to get in, and never did. How long do you think this is going to take?” the owner asked impatiently.

“Not long,” Don said, smiling. He reached through the open passenger window and pulled up the latch, then opened the door for the astonished man.

“Did you charge him anything?” I asked Don when he told me about it.

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Circle 312 on Rapid Reply

"Why sure!" Don replied. "After all, I made the service call and then had to listen to all his guff."

"But didn't he object?"

"Of course, but I told him that was the cost of my experience and his not paying attention. Then I told him that little story I've heard you tell people about the value of things."

I frowned, trying to remember what he was talking about.

"You know," he said, "The one where the lady dashes into the hat shop and tells the designer she absolutely has to have a fancy little cocktail hat for a party that evening, and she asks him to concoct something beautiful and original for her. He agrees. Taking a length of iridescent ribbon, he twists and curls it this way and that, securing it at strategic points with little pins, until he's created a work of art that delights the lady. When he tells her the price is five hundred dollars, she shrieks, saying that's preposterous, that the hat is nothing but a piece of ribbon. The designer removes the pins and drops the ribbon in her lap saying, 'Madam, the ribbon is free!'"

"Love that story," Don added. "But I'm not sure he appreciated it much. It wasn't quite on target, but he got the point, and I got paid for my trip charge."

"What happened with that Lexus you went to open, earlier?" I asked.

Don twisted his mouth and frowned. "Well, if you must know, I couldn't get into it. Every time I'd trip the lock, it would automatically re-lock, and with the tinted windows, it was an impossible situation, working alone."

"So what did you wind up doing about it?"

"I came back to the store and sent Buddy and Joe over there. I figured

the two of them could handle it without any problem. Why?"

"Oh, nothing," I said, smirking. "I just got a call from the owner and wondered what was going on."

"What kind of call? What did she say?"

"She was concerned that you might lose your job over it," I said. "She wanted to assure me that you were a very nice man and had done your best, and to tell me that the other two fellows had gotten it right open. She said she hoped you hadn't gotten in trouble with your boss." I laughed.

Don did not think it was funny.

I knew he'd had similar problems trying to get other Lexus vehicles open on his own, because of their re-locking system and their tinted windows. In fact, he'd recently taken a call on the river to open a Lexus SUV. Fortunately, the two men traveling in the vehicle were willing to help out. Because Don couldn't see through the darkly tinted side window, after he wedged the door and maneuvered his JiffyJack to the inside, he asked one of the men to look through the windshield and direct him in opening the lock by saying "up," "down," "right," or "left," while Don felt around for the lock with his tool. The other man stood ready to open the door simultaneously with Don's unlock. Their actions had to be closely synchronized if they were to avoid immediate re-locking of the door. They were lucky. Don said, "Now!" and it opened on the very first try.

My mind wandered off to other unusual lockout situations we've experienced, and I chuckled.

"What's so funny?" Don asked.


"Do you remember the time, years ago, when you got that call to go up on the river and help a couple of women with a whole bunch of children, who couldn't get the trunk open on an old

Dodge? She had a key, and the car had an inside release, but the trunk wouldn't open either way."

"Oh, yeah. She vowed the lock had never been changed and she'd never had any trouble opening it before. I tried just about everything, and was on the verge of drilling out the lock when you had the brilliant idea that the trunk might be overloaded with swimming gear for all those kids, and that some of it might have jammed the lock."

"I wish you could have been there, Don said. If that wasn't a sight! One of the women got into the car and tried to work the trunk release, while the other put the key in the lock and tried to turn it. Then I climbed up on the trunk and bounced up and down on it. It finally opened, but I know we were a sight to behold. And all the whooping and hollering when it finally popped open! It was unreal." Don laughed at the memory. Then he said, "You know I've wondered how they got home. I understood they lived several hours' drive from the river, and the women insisted on putting everything that had been in the trunk in the back seat. They didn't want to take any chances."

"Didn't you say there were two large women and at least six or seven kids of all sizes? Don nodded. "How in the world did they get everybody into the car with all the wet floaties and towels and stuff in the back seat? Can you imagine how steamy-hot it would be in that car on a typical summer day, around here? You don't suppose the kids who couldn't fit had to hike all the way home?" I said.

"Oh, I doubt that. They probably crammed them into the car somehow." He chuckled again. "Sort of gives a new twist on an old saying—Children should be steamed, and not herded." [Groan!] 



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Circle 316 on Rapid Reply

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by
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Most of my safe jobs now involve electronic safe locks. Every brand of safe lock has its good points and its weak points. It is our duty as locksmiths and safecrackers, to exploit these factors to our own advantage.

If you really want to excel in safecracking, you must subscribe to as many different publications and books as possible to gain knowledge on specific safes and locks. I am a member of The National Safemans Organization started by Dave McOmie. He has written many books, teaches at his Penetration Parties, and has most of his information on Compact Disk for the computer literate. If you are going to be a good safecracker, you must have a lot of information and friends that you can ask for help.

The safe I am going to open for this article is an AMSEC depository safe shown in [photo-graph 1](#). It is an interesting little safe configuration that was new to me. The opening handle is

below and to the left of the KPL 2000 electronic dial. The handle turns to the left (counter-clockwise) to open. The safe was attached to the floor under a counter. The new owners of the shop wanted a price to either open and repair the safe, or buy a new safe and just leave the other one in place.



1. Small AMSEC drop safe installed in a cabinet under counter.

I came up with a price less than the cost of a new safe. I informed the customer that the opening and repair would include a new electronic lock of my choice. I knew that the KPL 2000 electronic combination lock featured a spring bolt type lock that could be pushed back into the lock to get the unit open after being drilled. Once open,

the old lock would have to be trashed and a new lock installed. There was no way to determine the old combination.

After submitting a written proposal, I got the job. I now decided to check the literature on that specific AMSEC type of safe and for its interior bolt and lock configuration. While researching the safe, and the lock, I found a procedure that I had never used before. I also found a picture of the safe in the NSO magazine on Compact Disk. A great research tool for sale from *The National Locksmith*.

This procedure was for electronically spiking the AMSEC KPL 2000 lock. The author of the article used was by Mike Yarberry, the Spikmeister. His theory and mine are the same. Attack the lock and the safe will open. It does not make a difference who made the safe, unless a relocking device is involved. He stated that this procedure works in about 50% of the safes. Once the weakness was diagnosed, the electronics were changed with the use of diodes, and this procedure might not work. It succeeded for me however.

The KPL 2000 electronic combination lock is no longer made. It has been replaced by the ESL

Continued on page 66



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2. Keypad removed by loosening 2 Allen head cap screws on either side of keypad face - at 3:00 and 9:00 o'clock.



5. Side view of safe door showing top and side locking bolts.

series of electronic locks. Most times the keypads wore out and would not take input. I used to splice an eight-wire connector from the safe to a good used keypad. Most times this would work and I would put a new lock on the safe or chest. On this job, the existing combination was not known, so the lock was toast.

The large keypad is removed by loosening two small Allen head cap screws located on both the left and right sides of the keypad. Once these screws are loosened, the keypad can be pulled straight off the mounting base. 4-AA batteries are included in the base. The working voltage is 3 volts. The extra batteries are for back-up. With this opening, you use the batteries in the unit to spike the unit open. Be careful and do not cut or damage any of the existing wires and do not disconnect any wires, (*see photograph 2*).



3. Inserting brass tube in spindle hole protects the cable if drilling is needed to penetrate lock case before spiking.



6. The plastic box on the back cover will be removed and tossed. This box unit is used for changing the combination on the KPL 2000.

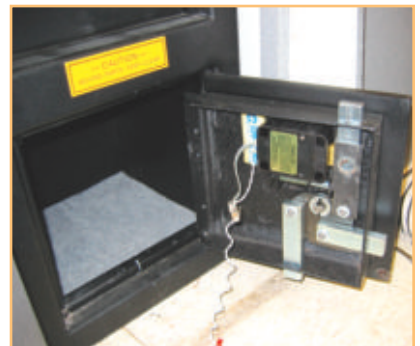


8. With the old lock removed, the relocking bolt blocks the downward movement of the vertical bolt bar. It is located 1.75 inches down from lock center.

Once the keypad is removed you can look down the spindle hole to see the cable that attaches the keypad to the lock body. The cable went to the right, so this meant that the bolt was to the left. This would only be important if you were drilling to push back the bolt. I inserted a small brass tube down the spindle hole. I had to push the cable



4. Wire connections. The black wire is attached to the ice pick with a jumper wire. Just insert ice pick and the solenoid will buzz and the safe is open!



7. This shows the three locking bolts in the locked position. The relock plate had been removed allowing the relocking mechanism to activate.

wires to the side to get the 3/8-inch follower to the base of the lock. This was to protect the wires while I drilled out the base of the lock at the spindle hole.

I drilled a 1/4-inch hole in the base of the spindle hole into the case of the lock. There is a large wire armature at the base of the hole. I used a battery drill and gently penetrated the case until I hit the red painted copper wire. It is only about 1/8-inch that you have to go through until you are at the wire. There is no hardplate or anything else in the way. So be moderate in your drilling pressure.

The hard part is over. Now, all you have to do is to take an ice pick and attach the black wire of the battery pack on the safe base to the ice pick. Push the pick and wire into the armature and the safe bolt will draw into the electronic combination lock body.

Continued on page 68

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9. Door ready for installation of LaGard Basic electronic lock. It uses the standard mounting holes to attach and slide on the new keypad.



10. The LGBASIC lock installed with bolt flat up. Relocker is temporary deactivated to check proper function.



11. AMSEC relock plate is installed on the LGBASIC with the two cover screws made for that purpose.



12. Finished installation showing the new angled up keypad for ease of entering numbers and viewing.

You will hear the lock buzz. Turn the handle and the safe door will open. In [photograph 4](#), the handle has turned and the door is open. The total time to open the safe was under 10 minutes. Both the customer and I were amazed that it was so easy. This was one job I was glad I flat rated instead of time and materials.

[Photograph 5](#), is a side view of the ice pick setup and the side and back of the door. Easily visible are the square top and side bolts of the safe door. There is also a bolt at the bottom we will see shortly. There is also a black plastic box attached to the back of the safe door. [Photograph 6](#), shows the view of the black plastic box that is used for changing the combination on the KPL 2000. Since we are trashing the lock, this box can be removed or left on the door. There are two sets of wires that must be disconnected or cut before the back cover can be removed for servicing.

Once the back cover is removed we can see the electronic safe lock. It has the same footprint as any other Group II combination lock. In [photograph 7](#), I have removed the AMSEC cover plate that holds the relocking pin in place. The bolts are out in this photograph to show the locking configuration. From the outside, the lock is mounted Horizontal Left. The relocking device is located 1.75 inches below the lock facing the same direction as the lock bolt.

A closer look at the relock pin without the lock is shown in [photograph 8](#). If the relocker is set off you have a couple of choices. The relocker does not cross lock, so it can be pushed or pulled back to allow the upper bolt to move down. This is easier said than done. You can drill about 1 inch to the left of the spindle hole and 1.75 inches down. This will put you at the bolt and the spring. You can try prying the

bolt back, cutting the spring, or drilling the bolt in half. A friend of mine made a tool from bicycle chain that can be inserted into the spindle hole, and if the relocker pin can be hooked, the pin can be moved to the right to the open position.

Once the door is open, it was time to replace the KPL 2000 lock. I choose the LaGard Basic or LGBASIC in the lock catalog. The newest version of the Basic mounts like most traditional electronic locks. [Photograph 9](#), shows the front door of the safe before the two special cap screws are installed. These screws use the traditional mounting holes for most safe dial rings. Once the screws are installed, the new keypad is slid down over the tops of these screws. This is exactly like the standard LaGard 3600 combination lock keypad is installed.

I installed the LGBASIC and pulled out the relock pin to check the functioning of the unit with the relock pin on the safe door disabled. This can be seen in [photograph 10](#). The lock is installed with the flat side of the combination lock bolt facing UP. The lock is held to the safe door with the new industry standard of 3 (as opposed to 4) 1/4 inch screws.

The AMSEC relock holder plate fit perfectly on the LGBASIC. The two cover screws are made for a relocker plate and this one fit perfectly ([see photograph 11](#)). I reinstalled the back cover and tried the lock on the factory preset combination of 1-2-3-4-5-6. Everything was perfect. The new dial keypad of the LGBASIC is shown in [photograph 12](#). It is an angled keypad that makes entering numbers and seeing the numbers much easier than a flat keypad. Spiking was fun and profitable in this case. If it did not work, then I could have drilled and probed back the bolt.

Open, try new things, and Prosper. **TL**

3



To get the wheels out of the lock, we have to bend or break the cover out far enough for the wheels to have somewhere to go. Once the back cover bends out (or breaks) start pushing and sliding lock parts out the hole.

4



Once the wheels and drive cam are gone, the only parts left in the lock will be (a) lever, (b) lockbolt, and (c) internal RL. Use an L-wire to defeat the RL, and then hook and retract the lever and lockbolt.

5



The aftermath. This was in a UL-rated X6. Total time was under an hour. Try it, you'll like it!

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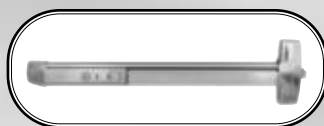
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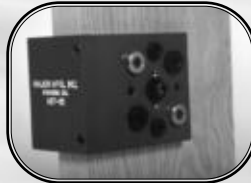
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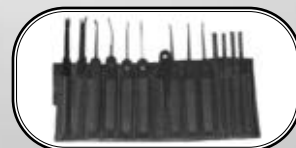
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If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

Prizes are arranged according to suggested retail price value.

**Tips Start
on Next Page**

**Prizes
Awarded From
These Companies
Every Month!**



A Few Words From Jake...

Okay, here I am back with an on-going reminder.

If you look at the monthly prize list you will see that we give away *thousands and thousands* of dollars worth of monthly prizes each year! And, each year we have a great year-end drawing where we give away thousands of dollars more in prizes, etc. That means each locksmith that has a tip printed during the year not only gets a prize for the month the tip is printed, but that locksmith also has an opportunity to win one of the great prizes at the end of the year. Including the Grand Prize: A Silca Club machine!



*by Jake
Jakubowski*

There are no raffle tickets to buy, no chances to be bought, no gimmicks or gotchas. Just sit down, write up your favorite tip on how to make your job easier and send it in to me. If you can draw a little illustration to go with the tip that's fine. It doesn't have to be "good" just enough to give us an idea of what you are trying to get across and we can make the drawing what it should be. We've got a great graphics department at TNL.

Take a look at the January (2004) issue, look over the year-end prizes and think about whether or not you'd like to see the Big Brown Truck pull up in front of your house with one of those dandy tools, displays, machines, jigs, books, and whatever. You never know...you just might get what you're wishing for.

You can also email me your tip (Jake@aaamericanlocksmith.com). Just remember: whether you email me a tip, snail mail me a tip or send it by pony express. PLEASE! Include your name, telephone number and PHYSICAL address! We need that information to contact you if your tip needs clarification and to send you the prize when your tip gets printed.

See y'all next month!

Master Lock®

- WINNER -

Toyota Codes

A lot of locksmiths are under the impression that Toyota has done away with codes on their door locks. That's not true. The reason why locksmiths believe this, is because there are no passenger door locks on the newer Toyotas, and that's where the codes were, in the past, found.

However, the code can be found on the driver's door lock. So just remember no passenger lock; the code can be found on the driver's door. This has worked for me, and will work for you.

*Jonathan Muhammad
Georgia*



- WINNER -

Take the Gate Latch Out First

Recently I was called out to make a key for a 1996 Jeep Cherokee.

I looked up the vehicle in my pocket guide and found that the glove box had 3 cuts, the door had 5 and the ignition had all 7.

I quickly sight read the 3 in the glove box and started to sight read the door lock. It didn't take long to become frustrated when I found that my readings weren't producing a working key. I tried several times with the same result. I finally decided it was time to pull a lock and chose the lift gate lock.

Four screws and some panel clips are all that hold the panel in place and a spring clip holds the lock. In a matter of minutes I had the lock in my hand.

I took the lock to my van to get out of the 20-degree temperature. There I attempted several more readings and still had no luck. I was at my wits end when I noticed that if I depressed the spring-loaded push button on the lock, the last four wafers were exposed. I inserted the key with the glove box cuts on it and found that they worked.

It was then that I realized that I could progress the 4th cut. When I finished the 4th cut I noticed that I could see the 3rd cut with my Oscope. I progressed it to find that there was a 6th wafer in the lock (the number 2 wafer).

Finally, the reason my sight-reading wasn't working was I was assuming the first two I read in the door were all I needed when I really needed to read the first three. Using the otoscope I progressed the 2nd wafer and suddenly had a working key. This left me with just one cut to progress. Luckily for me it was a 1 depth and the vehicle started on the first try. The 2-hour nightmare was over.

I now realize that simply taking the gate latch out first would have allowed me to finish the job in about 30 minutes tops. I hope this is useful for some of the other new locksmiths out there.

Shane White
Colorado

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Making a Key for a Ford 10-Cut Replacement Ignition

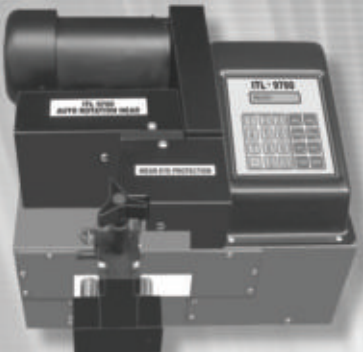


As the Ford 10-cut ignition system is getting older, many ignitions on these cars are being replaced with new ones because the "ears" are coming loose.

Sometimes the mechanic (in the case of a dealer repair) or the

locksmith that replaces the ignition doesn't take the time to key the new ignition to the customers' existing key. Thus the result is that the customer has two different keys for the ignition and door where before they had only a single key.

A problem arises when this person loses their keys. Key generation is complicated because the conventional methods of making a door key and progressing it to fit the ignition is not possible.

ITL PRESENTS

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I have noticed that almost all of the replacement ignitions use a "1-1" as the number 5 and 6 cuts (common cuts). Before drilling or forcing the ignition and replacing it, try using the progression chart for 1-1 as the most common cuts. You will usually have a working key within minutes. Afterwards I pullout my E-Z reader and make a door key-and charge an additional fifteen-to-twenty dollars for that service.

*David Rick
New York*



- WINNER -

Gainsborough Deadlock

I come across these locks quite a bit as they seem to be a favorite of builders here in Australia. The main reason I get called out for these is that the clutch plate breaks and the key will just keep turning without moving the bolt. Very frustrating if you are locked out on the third floor.

I was always told that the quickest and simplest method of opening these was to drill out the fixing screws and then replace the lock with a new one. Well, after a bit of thinking about this I came up with a solution that opens the bolt without damage.

First duplicate the key and remove the bottom part of the key blade as you would do for a euro-cylinder rekey.

Next insert the new key into the lock and poke a piece of stiff wire into the keyway where the bottom part of the blade was removed. I normally use a piece of wire that is about 2-inches long. You need to push the wire all the way to the back so that it hits onto the "hat".

Finally, turn the key. That's it!

The piece of wire now acts as the tooth that has broken off from the clutch plate. Once the door is open all you need to do is replace the clutch. This method takes half the time of drilling allowing you get on with your next job quicker and the customer will love you because they don't need to fork out more money to replace the lock and keys.

*Geoffrey Crook
Victoria Australia*



SARGENT AND GREENLEAF
A lock on security.

- WINNER -

Hiding the Codes

This is a simple trick for saving car key codes after replacing a lost car key.

At Pep Boys, I buy a set of 12 self-adhesive safety reflectors. The type that you can stick on the opening edge of a door, so the open door would be visible during the night. I pull out the reflecting insert from the plastic base.



Photograph 1.

After making a key for the customer's car, I write the code on a piece of paper or plastic foil. Then I insert it in the plastic holder, snap reflector on the top and glue it on the driver side doorjamb, (see photograph 1).

I also inform the customer what this is for and if they lose their keys again they can inform others where the code is located. I think it's good customer relations and it makes my job easier in the future if the customer should ever call me again.



- WINNER -

Tricky New I/C Tool

I have been doing a lot of I/C work and found this tool to be indispensable.

Removing a lot of small-format interchangeable-core locks can be hard on the fingers and require picking up and putting down the control key many times.



Photograph 2.

Make a key holder out of a knurled piece of 1/2" round, mild steel or hard aluminum. I used a handle from a broken socket wrench, (see photograph 2).

Slit the tip of the tool to the width of an IC type key blank. (If the holder is wider, slit the top to the width of two keys with a spacer between. You can then hold the old control key and the new control key at the same time.)

Drill a hole where an Allen screw can be inserted to hold the key in place. Use a standard Allen head screw as it can be removed by hand to change keys.

The key should be loose enough to swivel in the slot, (see photograph 3). The added handle will add a lot of torque when turning so be careful not to break a key.



Photograph 3.



Photograph 4.

The handle end of the tool will have two holes drilled that allow it to fit into the lock after the IC core is removed, (see photograph 4). The handle can now be used to operate the lock.

If you are careful to place the two holes at the exact angle relative to the key, you will be able to leave the driver pins rotated at the exact core insertion angle indicated by the key being exactly vertical.

This tool has one additional usage. When the tailpiece rivets become loose on the back of a

mortise cylinder, they can be peened back tight. Try to drill the two holes referred to above slightly less deep than the two tailpiece driver pins. The pins should bottom out in the tool. Just insert the tool into the mortise cylinder. Angle the control key straight. Insert the control key in a vise with the tool and mortise cylinder pointing up. Using the tool as a support anvil, peen over the rivets holding the tailpiece on.

*James Moorman
Texas*



Magnetic Pick Holder

A few days back I was called to open a side door of the reception office at a large company. Normally when I pick open a lock, I take out my 3

favorite picks and maybe 2 or 3 tension wrenches, all of which get tightly stored between my lips/teeth.

To say the least the door wasn't cooperating that day and I was getting frustrated, all this time the picks were falling out on the floor and getting drooled on etc. I finally noticed that everyone in the reception office was having quite a laugh at all this. I must admit I did look ridiculous with a mouth full of wet lock picks!

When I pick a lock I like to have all my tools at eye and hands reach so this excludes my

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pockets. That evening I decided to come up with a cunning plan. I took my company laminated I.D card (the kind that gets clipped to your shirt) and glued a magnetic strip (the kind used on refrigerator magnets) on the back of the card. Now when I am out picking a lock I just flip my I.D card over, attach my picks and wrenches and pick away.

*Ed Gorgulho
South Africa*

KEDEX

- WINNER -

Titan Trick

I've read a few tips on what to do when you're out of Titan core removal keys on a job. Here's how I cope with these locks without having to buy the "factory" removal key blank.

I simply take one of the customer's old keys and put it in

my duplicator with the back of the blade facing the cutter. I cut a wide and deep enough cut between the 2nd and 3rd cut, and use this key to remove all cores. If necessary, or if I want to be on the safe side, I first duplicate the customer's key. When it comes time for reinstalling the cylinders, after rekeying and testing the key, I slip the plug out with the follower, remove the key and reinstall the plug in the turned position so the slit in the plug is in line with the retainer.

Then I install the C-clip and it's ready to go. After the core is installed I use the tip of the key (you can use almost anything to do this) to turn it to 12:00 o'clock position.

*Mehdi Zahedi, CRL
Ohio*

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- WINNER -

Jammed Top Pin Solution

I have found that when I'm rekeying old cylinders, quite often top pins are jammed into the upper chamber. When you can't get the pin or spring out, I just simply drill a 1/64th hole through the top of the cylinder in line with that particular chamber and the bit will push it out.

Replace (after lubricating) with a new spring and driver and you are back in business. Oh, and don't forget to cover your hole with about any kind of filler so dirt and moisture doesn't settle in.

*Dennis R. Davidsohn, Jr.
Kansas*

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Editor's Note: Dennis, thanks for the tip. I understand what you are doing here but wondered why you didn't simply remove the retaining cover? Even if the covers are "staked" or swaged in place, they can often be coaxed off the cylinder and replaced. By drilling the hole, as you suggest—which will work—you then have to use a filler, as you pointed out, to cover the hole. At any rate, the main thing is that you found another way of accomplishing a task. So, good for you!

Sieveking Products Co.

- WINNER -

Keeping Up with Framon Spacing Blocks

I have a Framon #2 code machine which I use a lot.

There are 6 spacing blocks numbered 1-6. Each block is designed to allow the user to make accurate cuts on a key blank.

Keeping the blocks in order in a holder of some sort, so they're readily available, has, at times, been a problem for me.

I solved the problem by using the plastic pin containers that my LAB pins come in. I taped six of them together and numbered them from one through six so they're always together in one place. I now have them at my fingertips when they are needed.

I simply lift the lid on the numbered container and tilt it up and out comes the proper block. The rest of the blocks remain in their individual block container. It sure makes my job a little easier.

*Fred Spencer
Pennsylvania*



Picking Trailer Hitch Pin Locks

Here's a trick I have used it several times and it has saved me a lot of time and aggravation. The first time I picked this type of lock was about 8 years ago in Tennessee and I was lying on a rock driveway under the rear end



Photograph 5.

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Photograph 6.



Photograph 7.

of a huge diesel pusher motor home. I could only get to the bottom of the lock and decided that there had to be a better way. There are two different types of these locks that use the screw type cylinders, which

have to be picked every $\frac{1}{4}$ turn, (see photograph 5 & 6).

As most of you are aware, these locks have four locking positions and the cylinder has to be screwed in to lock and screwed out to unlock. When you're trying to pick these locks, it can often eat up some valuable time.

I have found it is a lot easier to hand pick these $\frac{1}{8}$ turn and stop! Then I use my plug spinner to "flip" the cylinder around several times! Rather than laying on the ground picking and picking and picking, I usually only have to pick the cylinder two and occasionally three times, (see photograph 7). The plug spinner does the rest.

Clarence "Sonny" White
Illinois

Dave McOmie on Lift-Out Round Doors from The National Locksmith®



At long last, we are pleased to announce **Dave McOmie on Lift-Out Round Doors!** This newly published book contains 317 pages (not counting the lengthy introduction), 664 photographs, and more than 40,000 words of text. It covers just about every lift-out round door you will ever see, and a whole lot more (54 different manufacturers, to be precise). Included in the text are drill points, relocker drill points, depth to door bolts, door thickness, door diameter, and many, many tips and tricks.










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LEGARD
- WINNER -

Broken Dial Spindle Extension

Here is a quick, easy way to make a broken dial spindle extension without breaking the bank.

When the dial spindle on a safe is broken off at or below the surface of the door, you need to be able to grasp it to open the safe. In most good hardware stores, and nearly all hobby stores, you can find inexpensive brass tubing as shown in photograph 8. It comes in sizes from $\frac{5}{8}$ " diameter, on down to about $\frac{1}{16}$ " diameter. This tubing is



Photograph 8.

usually found in a display featuring 12" lengths and is manufactured by K&S Engineering, Chicago, Ill. Their website URL is <http://www.ksmetals.com/>.

I keep a full range of sizes just for such emergency requirements. I use a piece that is the same diameter as the safe spindle I am working on, split the end in one place as shown, and then flare it out slightly. I slip that piece of tubing down over the spindle I am working with. Then I take a shorter piece of the next size larger tubing and slip it down over the first one to bind the first piece of tubing to the dial spindle.

Occasionally, I may have to gently tap the second piece down snugly so it will grip the spindle securely. This generally holds very well and serves as an excellent spindle to dial the safe open with. It will rarely slip, but if you have trouble, then try a touch of super glue to help it stay affixed.

With this modified spindle extension in place, all you have to do is attach an emergency dial, determine your drop-in and then proceed to dial the wheel pack as you would any safe, (see photograph 9). It also helps (whenever possible) to note the

location of the spline key on the broken spindle. This will help reduce the amount of diagnostic dialing you will be required to do.

*C.D. Lipscomb,
CML, CPS
Texas*



Photograph 9.



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BUSINESS BRIEFS

Bianchi Appoints Reynolds, Skowron

John H. Reynolds has been named president and Joy Skowron has been named director of sales for Bianchi USA. Reynolds brings over 30 years of manufacturing experience, including experience with smaller companies and high growth situations. In addition, Reynolds previously served as president for Silca USA and holds a BS degree in Engineering from Cornell University and an MBA from the University of Michigan. Skowron brings over 27 years experience in the automotive industry, including extensive experience in automotive aftermarket sales and locksmith education as well as a background in manufacturing, quality assurance and engineering. Bianchi USA is the North American division of the Bianchi 1770 Group and specializes in precision key cutting solutions and transponder servicing tools.

2005 California Locksmiths Association Trade Show Dates

The California Locksmiths Association's (CLA) Educational Program and Tradeshow will be held April 7-9, 2005 at the Ontario Convention Center in Ontario, California. Classes include Master Keying, Lock Picking and By-Pass, a 20-hour Electronic Certification class, Safe Class, Transponders, Domestic

Automotive Servicing, and Safe Penetration & Repair.

Both suppliers and locksmiths can contact the CLA office at (714) 632-6800; Web: www.cla4u.org.

Joe Dominguez Named RCI East Coast Sales Manager

Rutherford Controls named Joe Dominguez as its east coast sales manager. He will handle the full line of RCI products including electromagnetic locks, electric strikes, electric locks, power supplies, switches, keypads and readers, exit devices, systems and door hardware.



Joe may be reached at 561-776-9500 or Joe.Dominguez@rutherfordcontrols.com.

Willingham Joins DORMA as Texas Sales Representative

Mark Willingham has joined DORMA Architectural Hardware as a Direct End User Sales Representative. He is responsible for working with end-users in Texas that are using and specifying DORMA's full line of door hardware products. He will also be visiting, educating and introducing customers to DORMA in various specialty channels.

IR Security & Safety Acquires Recognition Source

IR Security & Safety has acquired the assets of Recognition Source LLC, which markets wireless technology in physical security environments. Under the Schlage brand, these innovative access control products will expand the range of IR's solutions for airports, healthcare institutions, schools and universities, corporate facilities and other applications that can benefit from faster, less costly installations.

NBFAA Offers New Alarm Classes

Two new courses are being offered by National Burglar and Fire Alarm Association (NBFAA). Offered through the association's National Training School, the first is an online version of the Alarm Technician (Level 1) course, and the second is a class enabling technicians, salespeople and project managers with the experience needed to utilize networked devices in their installations.

Information about classes is available at 866-636-1687 or www.alarm.org.

Adams Rite Changes

Adams Rite has named Kevin Hamilton Group Director of its Architectural Hardware Group (AHG). The company is also recognizing AHG to include customers and

products of both Markar Architectural Products, Inc. and Adams Rite North America. Adams Rite Manufacturing Co. acquired Markar Architectural Products in February 2002.


As Group Director, Hamilton's responsibilities include the sales, marketing and business development for the AHG.

Other organizational changes include:

Dave Orban Vice president of Business Development, Ron Gentner Eastern Sales manager, Gary Deter Business Development Manager for the AHG, Larry Whipple Business Development Manager for OEM Markets, and Scott Sabatini Manager, Architectural Specifications.

Medeco, The N.Y. Giants, and 2,000 Volunteers

Medeco High Security employees and former New York Giants football team players joined forces with former President Jimmy Carter in Mexico to build 150 Habitat for Humanity homes in five days.

As part of the 2004 Jimmy Carter Work Project, the Medeco and Giants volunteers worked with more than 2,000 other volunteers to construct homes in Puebla, Mexico, and Vera Cruz, Mexico. 

2002 YAMAHA® YZF R6



by
John Blankenship

1. This is one of the more popular sport bikes, so there are a lot of them out there. There are no codes anywhere on the bike but originating a key is not difficult.



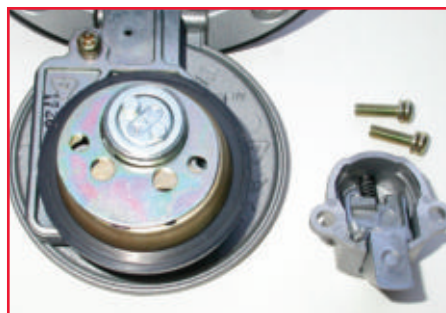
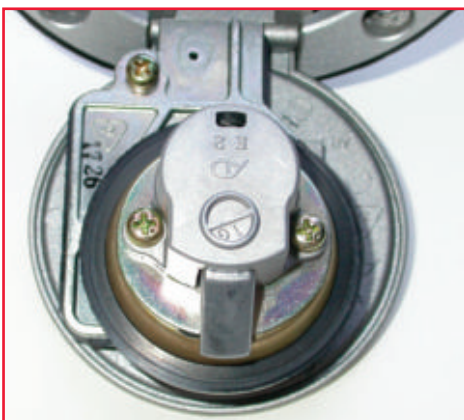
2. This view from the drivers seat shows the ignition lock in front of the handlebars and the gas cap on top of the gas tank.



3. Pick the gas cap 90-degrees clockwise to open it. Have a small screwdriver ready to finish turning the lock because you are picking against spring pressure. This lock usually picks easily with

a rake. Stuff a rag into the filler neck so nothing can accidentally drop into the tank and use a 4mm hex key to remove the three bolts in the 12 o'clock, 5 o'clock and 7 o'clock positions. The bolts in the 2 o'clock and 10 o'clock positions do not have to be removed. Then use the 4mm hex key to remove the one bolt under the gas cap so you can take the gas cap assembly to a bench.

4. Remove the two Phillips screws that secure the locking bolt housing and remove it.



5. The locking bolt housing has been removed along with the locking bolt and spring. There is a new part that has been added to the locking bolt assembly.

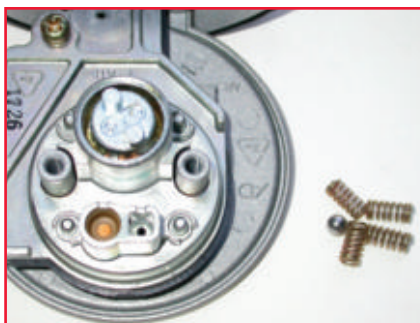
More on this after we make a key to the gas cap. Remove the washer from around the back of the plug.



6. The washer and O-ring were removed using a dental pick. The gas cap assembly was turned over to allow the bushing to fall out. Grease was holding it in so some

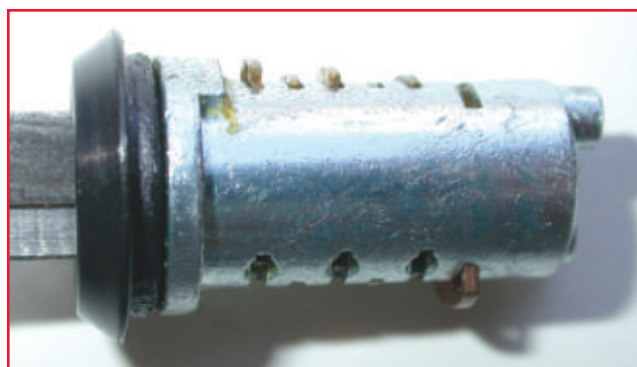
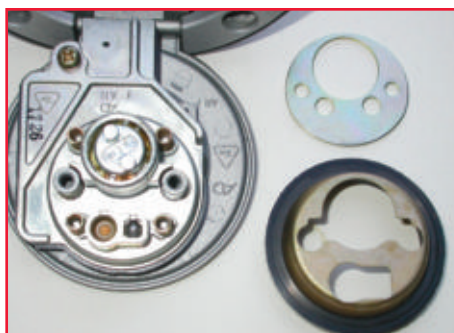
tapping was needed to help it out. The round plate surrounding the cylinder will fall off if you don't hold it on. There are some small parts under it that can easily be lost. You can now depress the retainer on the bottom side of the plug and push it out the front. Be careful and do not allow any washers to spring out.

8. The four compression springs and ball bearing have been removed. Now the retainer can be depressed and the plug removed without having to hold the round plate on.



7. The round plate and gasket plate have been removed to reveal the small parts that can be lost. There are four compression springs and a ball bearing.

The ball bearing is in a recess next to the lower/right compression spring.

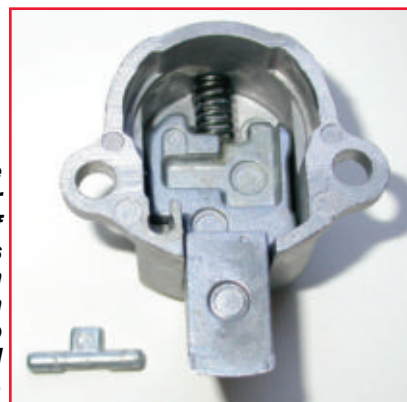


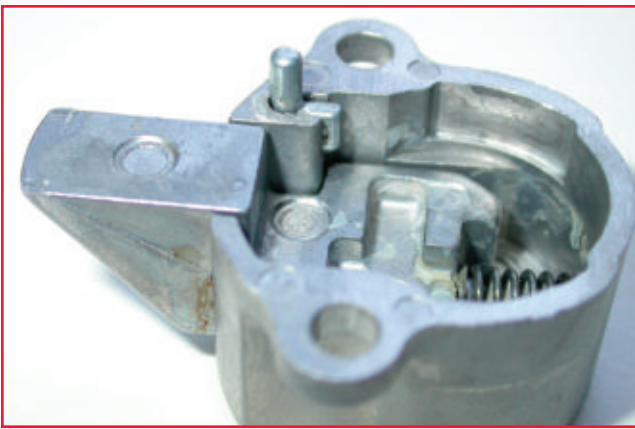
9. The gas cap contains five wafer tumblers and a wafer retainer. An X248 blank inserted into the plug shows that the cuts for spaces 3-7 are 42312. A search using key code software revealed that there are only two codes that use these cuts in the last five spaces. The cuts for spaces 1-2 can only be 11 or 13. You can also progression the first two spaces in the ignition lock; there are 16 possible combinations. It is not obvious but the key is tip-stopped in this lock.



10. A code cut X248 with cuts of 1142312 works all three locks on the bike. A reverse search showed that the code is A7621.

11. This is the small part that has been added to this assembly and will be referred to as the bolt stop. It can go back into its hole and slot in either direction; both ends are the same. There is a small spring in the bottom of the hole it came out of; it did not fall out so I left it there. The purpose of this part is to keep the locking bolt from fully extending until the cap has been closed. This keeps the plug from turning all the way to the locked position until the cap is closed, which means you cannot remove the key until the cap is closed. On earlier models you can turn the plug to the locked position and remove the key before you close the cap.





12. The bolt stop is back in its hole and slot. I used grease to hold it in place when I turned the housing over to reinstall it. Insert the key and turn the plug slightly clockwise when you reinstall the housing because you have to push the locking bolt back in slightly so the end of the bolt stop can be pushed down flush with the face of the housing. After the housing has been secured with the two Phillips screws, test to make sure the locking bolt retracts all the way when you turn the key to the unlock position. Photo 6 shows the two large holes in the round plate. The bolt stop rests against the gasket plate through one of the holes. When the gas cap is closed, the gasket plate compresses the four compression springs and moves away from the round plate. This allows the bolt stop spring to push the bolt stop out so the locking bolt can fully extend to the locked position.

13. The seat lock is located on the left side of the bike below the seat. It turns about 30-degrees clockwise to unlock the seat latch so the back of the seat can



be pulled up; it will spring back to the locked position when released. It contains wafer tumblers in spaces 3-5.



14. The ignition/steering lock is shown in the OFF position, which means the ignition is off but the steering is unlocked. In order to lock the steering you need to turn the steering to the right or left, insert the key, push the plug in, and turn it counterclockwise to the LOCK position. In order to unlock the steering you need to insert the key, push the plug in, and turn it clockwise to the OFF position. Make sure the steering is not binding the locking bolt when you do this. Turning the lock between OFF and ON does not require pushing the plug in. This lock contains 8 wafer tumblers all on the same side of the keyway. The first seven tumblers are raised by the cuts in the seven spaces on the key. The pre-cut tip of the X248 blank positions the eighth tumbler.

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Codes: A7001-A8500
 Blank: Ilco X248 (YM63), Curtis YM63, Silca YH35RBP
 Spacing: 1=.157, 2=.256, 3=.354, 4=.453, 5=.551, 6=.650, 7=.748
 Depths: 1=.295, 2=.276, 3=.256, 4=.236
 HPC Card Number: CMC71
 DSD: 441
 ITL Number: 523
 Curtis: MZ-3 cam & SU-2B carriage

Tumbler Locations:	1 2 3 4 5 6 7
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Gas Cap	X X X X X
Seat	X X X





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Corbin C13300 Series Cylindrical Locks



THE NEED:

Grade 1 locksets are the standard for high-use commercial, industrial and institutional applications such as schools, universities, hotels and apartments. If you are called upon to replace a lock in any of these applications, you will most likely be required to match the existing keyway and/or the design of the current lockset. If the existing system is a Corbin Russwin, the logical replacement is a Corbin Russwin, and if Grade 1 is required, the CL3300 series fills the bill nicely.

PRODUCT SPECIFICATIONS:

The CL3300 series cylindrical locks exceed ANSI Grade 1 requirements and have a UL 3-hour fire rating for 4' x 10" doors. They have a lever release design for vandal resistance, have solid cast levers, independent return springs to prevent lever sag and feature anti-rotation through bolts at the 6 and 12 o'clock positions.

The locks are non-handed and fit doors ranging from 1 3/4" to 2" standard with thicker door applications available with special orders having a D214 option. A 2 3/4" backset latch bolt is standard and a 3 3/4" and 5" are available. The lock chassis is steel, zinc dichromated for corrosion resistance.

The latch bolt is brass, chrome plated with a 1/2" throw. An option of a 3/4" throw is available for deadlocking fire latch for a pair of doors. The deadlocking latch bolt prevents manipulation when the door is closed.

The cylinder is brass, 6 pin, with L4 keyway, 0-bitted standard. A full range of Corbin Russwin keyways are available for the CL3300 series cylindrical lockset.

A conversion kit is even available for Schlage cylinders to use them in the CL3300. The CL3300 is also available for interchangeable core installations.

APPLICATIONS:

A full line of functions are available including: Passage or closet, CL3310, Privacy, CL3320, Institution or utility, CL3332, Half dummy trim, CL3350, Entrance or office, CL3351, Classroom, CL3355, Storeroom, CL3357, and Apartment, exit or public bathroom, CL3372.

The newest function added to the line is the CL3352, Classroom Intruder Cylindrical Lock. Introduced for the safety and security of school classrooms during time of crisis. This function allows for the teacher to lock the door from the inside with a key but still have egress because the inner lever does not lock. This provides security and safety because the teacher does not have to go outside the door to lock it, keeping them from the path of the intruder.

The lock even has direction of rotation for locking marked into the lever to help in time of panic. A key is needed to activate this feature so the teacher cannot be locked out by a mischievous student. The lock can still be locked and unlocked from the outside so that function has not been changed. I believe this function should be suggested to any school looking to replace a lock on a classroom.

There are three trim designs, the AZD (Armstrong), NZD (Newport) and PZD (Princeton). Six finishes are also available: 605, 606, 612, 613, 625, 626.

To order the locks less cylinder, ask for LC. IC core is ordered by adding C6.

IN SUMMARY:

DESCRIPTION: A grade 1 lockset suitable for installation in high traffic areas.

FEATURES: A high quality heavy-duty lockset with a wide variety of functions and finishes.

TEST DRIVE RESULTS: A top of the line lock that will serve you well.

High Security IC Core is called CHS and a Best Core Lever is M08. Contact your supplier for more information on which functions they carry and lead time for special orders as they can take a considerable amount of time to ship.

INSTALLATION:

The CL3300 series requires the standard 2 1/8" crossbore and a 1" hole in the edge of the door. If you are working with a steel door, you will have to cut the ANSI tab notches to properly install the lock. Two hole for the through bolts at 6 and 12 o'clock. Be sure the holes are drilled so as not to put the lock in a bind or it will not function smoothly.

If you have to adjust the lock for door thickness, remove the outside lever, slide off the outside cassette assembly, rotate the rose to adjust lock to fit the door thickness, reassemble the lock and install in the door. Be sure to measure the location of the rose to be 1/2 of the door thickness from the outside rose to the center of the retractor.

CONCLUSION:


The Corbin CL3300 is a high quality heavy-duty lockset with a wide variety of functions and finishes. The Grade 1 standard assures the lock will last for a long duration and that you can recommend the lock with complete confidence that it will do the job.

For more information contact your distributor or:

Corbin Russwin
225 Episcopal Rd
Berlin, CT 06037

Phone: 704-282-2101

800: 800-543-3658

Website: www.corbin-russwin.com 

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